## COMMERCIA MOTOR

FRIDAY, FEBRUARY 19, 1960 ONE SHILLING

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TECHNOLOGY DEPARTMENT



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for the World's Tougher Jobs!



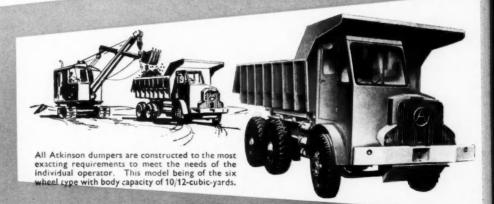
a fleet of 4 wheel Dumpers for use in Saudi Arabia. articular vehicles are equipped with all-steel bodies bit-yards capacity and powered by 158 h.p. is diesel unit. Right or left-hand control can be according to requirements.











To their already well-known range Atkinson add these specialised vehicles for the really tough jobs. In accord with the theme of "Rangeability" they are available with a wide choice of ancillary equipment to suit the Individual operator.

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THE COMMERCIAL MOTOR

February 19, 1960

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non-fade moulded BRAKE linings & CLUTCH facings

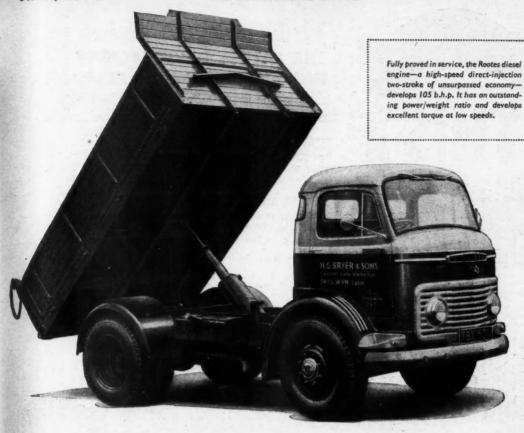
THE CAPE ASBESTOS COMPANY LTD 114 & 116 PARK STREET LONDON WI GROSVENOR 60#

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COMMER CARS L

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## Discerning Welsh operators recognise quality!

TEN 7 ton tippers powered by the phenomenal Rootes Diesel engine are among the many Commer vehicles successfully operated by H. G. Bryer & Sons of Dryslwyn, Carmarthenshire. In an appreciative letter they say, "All these vehicles operate under difficult conditions. Two have each covered over 200,000 miles and three others 100,000 miles each, at an entirely satisfactory average fuel consumption figure of 17½ m.p.g., and, other than our customary maintenance, no major overhauls have been carried out." You, too, will be well satisfied with Commer!

## COMPER TON TIPPER with Rootes Diesel engine



Here shown are some of the diesel-engined Commer 7 ton tippers operated by H. G. Bryer & Sons.

A ROOTES PRODUCT—BUILT STRONGER TO LAST LONGER!

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EXPORT DIVISION: ROOTES LTD. DEVONSHIRE HOUSE PICCADILLY LONDON W.I



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VEHICLES
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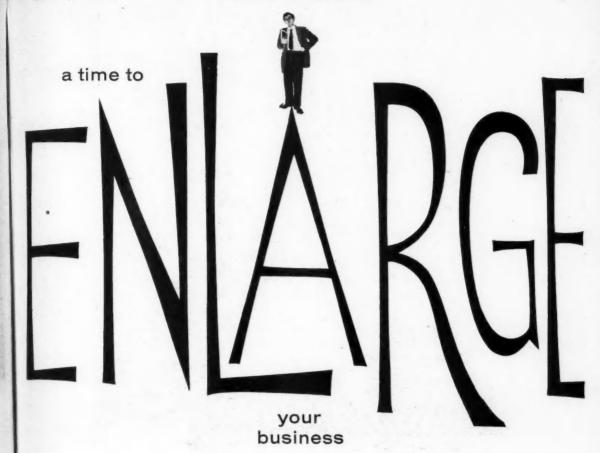
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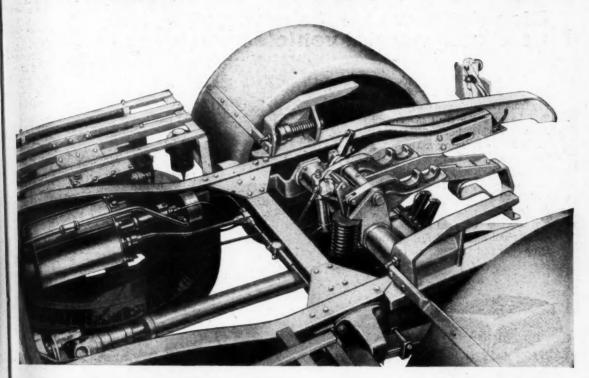
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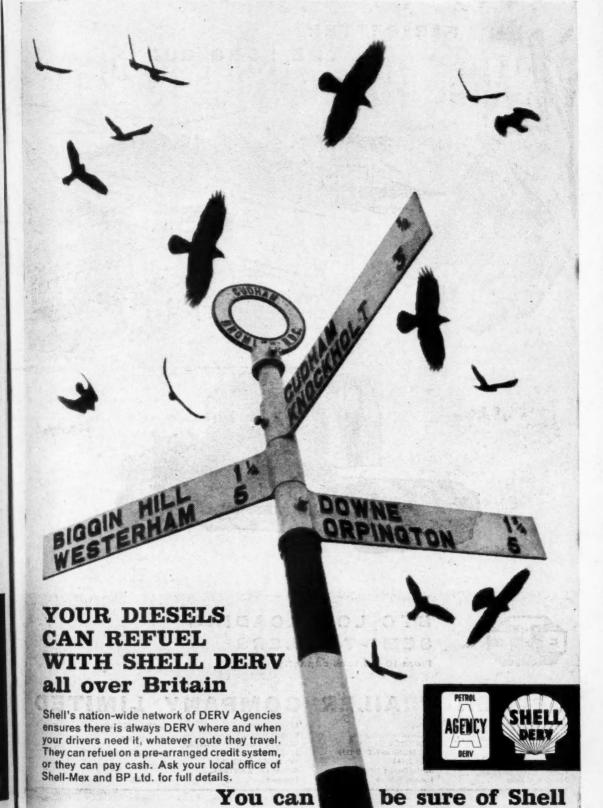


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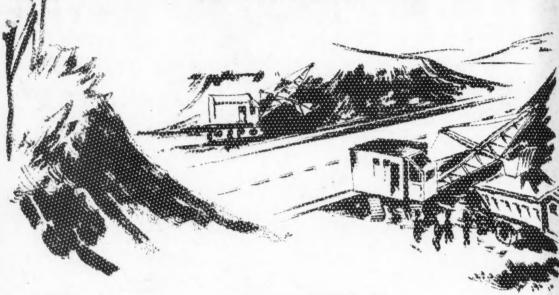
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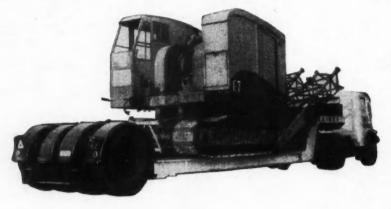
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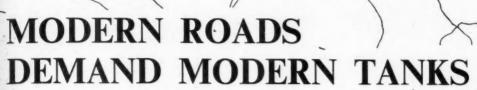
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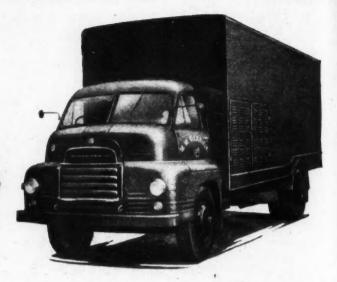
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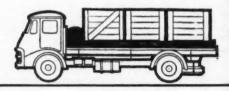


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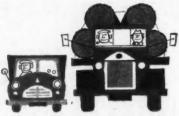


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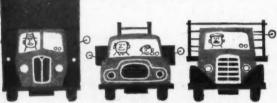
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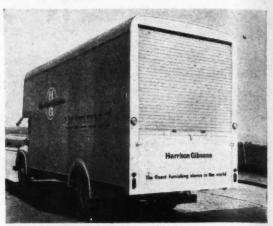
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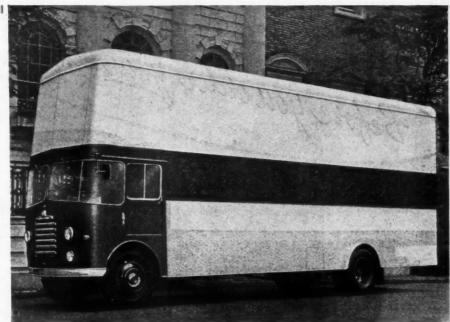
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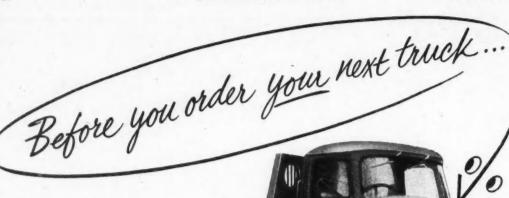
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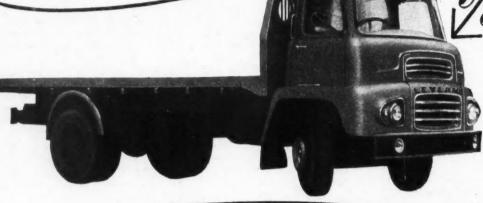
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FEBRUARY 19, 1960 VOL. 111 No. 2844

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## Gambling with Traffic

HE threatened strike by 355,000 members of the National Union of Railwaymen, averted at the eleventh hour by Government intervention, emphasizes that, without the support of the workers, the technical re-equipment of the railways is a sheer waste of the £2,000m. of public funds invested in their modernization. It also demonstrates that a small section of the community can safely overthrow a solemn agreement concluded with two other trade unions and with management and profit by its defection. Successive governments have quailed before the wrath of railwaymen, who by now must be convinced that a warlike display will bring them whatever they want, regardless of the cost to the British Transport Commission, to trade and industry and the travelling public.

Throughout the period of pressure, the attitude adopted by Sir Brian Robertson, chairman of the Commission, was unexceptionable. Backed by the two other railway unions, he stood four square by the agreement to await the publication of the Guillebaud report. No other constitutional course was open to him. In the event, responsibility for averting the strike was removed from his shoulders by the Government, who committed him to find another £19m. a year in wages. The position of the railways, already heavily in deficit, thus becomes much worse.

#### Further Aid for the Railways

A hopelessly unprofitable railway system spells danger for the road transport industry. The Government are conducting an inquiry into the organization of the Commission, and the relationship between road and rail will be an important consideration. Although the Conservatives are pledged to support free enterprise, they may feel obliged, to protect the public purse, to give further aid to the railways, perhaps by way of a subsidy or the reorganization of the Commission's capital structure. Whatever form assistance took, it could not fail to be to the detriment of road transport by giving the railways an unnatural advantage.

It would be foolish to divest the Commission of remunerative sidelines, such as hotels, but it is clear that the railway system must be drastically pruned. The railways must concentrate on bulk long-distance traffic and on the mass movement of urban populations, which they are best adapted to handle. All the dead wood, including many of the staff, must go. With a streamlined organization it should be possible to pay reasonable wages and improve the morale of staff, without which any effort to raise technical efficiency will be fruitless.

Monotonously recurring threats of strikes on the railways must be prevented by removing the cause of dissatisfaction. This is a matter in which the road transport industry has a direct interest. The railway strike of 1955 created new C-licence fleets and expanded others. It encouraged the growth of personal passenger transport. Hauliers stand with British Road Services, coach and bus operators and the railways in the fight by professional providers of transport to maintain and expand their traffic, and to stem the rising tide of C-licence vehicles, private cars and other personal vehicles.

Trade continues to improve and a modern, efficient railway system, like road transport, should be able to share in rising industrial prosperity. Statistics published last Friday by the Federation of British Industries show that capital investment in industry over the next year will increase, and optimism about the general business situation is pronounced. More concerns are working to capacity. Clearly, a great volume of traffic is available, but unless good, cheap, uninterrupted service is guaranteed by professional carriers, it will go by C-licence vehicle.

#### Sweeping Allegations

THERE seems to be a tendency for advocates appearing on behalf of the British Transport Commission to accuse haulier applicants for licences or variations of trying to mislead the Licensing Authority. They have done so on at least two occasions in recent months before the Transport Tribunal. It is a serious charge, and one not to be made lightly or as a forensic flourish. Anyone who makes a fraudulent statement to procure a licence may be punished by the courts under the Road and Rail Traffic Act, 1933. In addition, if he makes a false statement or expresses an intention which he fails to carry out, he may have his licence suspended or revoked under the Transport Act, 1953.

The severe punitive action recently taken against offenders in several cases of this kind emphasizes their seriousness. As proceedings before Licensing Authorities and Traffic Commissioners are not privileged in the sense of those before courts of law, it behoves advocates to be particularly careful in their allegations.

In addition, customer witnesses, who are probably putting themselves to inconvenience by attending court, might sometimes be handled with greater tact. If they are ferociously cross-examined they may well refuse to support applicants in the future. Even today, the customer is very often right.

#### Men Who Make Transport-21

#### Wendell Sno

THE managing director of Dodge Brothers (Britain), Ltd., is one of those rare and delightful Americans who genuinely think highly of Britain and Britons. He is thus much to be welcomed in our midst. He goes so far as to say that, as a nation, we are as dynamic and forwardthinking in our manufacturing and selling methods as anyone in the world. What is more, he believes that, even if we have a desperate traffic problem on our hands in London, the traffic moves just as fast-or slowly-as in any other metropolis. He doesn't mind our hotels, he doesn't object to our weather and he entirely approves of the manner in which we bring up our children.

He succeeded Bill Wallace on his retirement as managing director at Kew, in January, 1959, at the age of 44, He brought with him an unusually wide knowledge of industry, and not only of the automotive branch of it. Although the theory may not be welcomed in this country, in America, a young man is encouraged to widen his experience in as many fields as he has time to investigate, before settling down in a particular calling.

Wendell Snow Clough was born in 1914 at Barre, Vermont, by all accounts a pretty bleak part of the continent, where a man may play golf only between May and October. For the rest of the year, the course is apt to be deep in snow. From the age of 12 young Clough played a lot of golf and if he had the time he would like to play

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#### \_\_\_Bird's Eve View\_\_\_

#### The Bride Wore Clutch Cable

ONE of Britain's foremost road transport engineers who, to my knowledge, has never been defeated by any problem. no matter how obscure, was completely baffled by his daughter's crinoline wedding dress. After the normal methods of making the skirt stand out in the approved fashion had failed, he applied an engineer's ingenuity to the matter. Fifteen lengths of motorcycle clutch cable did the trick.

#### Poor But Generous

LTHOUGH they run more unremunerative services than ALTHOUGH they run more unremanded and Almost any other bus company in the country, the Lincolnshire Road Car Co., Ltd., have generously given a 35-seat oil-engined bus to the Rev. A. C. Smith to help him in his work in 15 parishes in the Tennyson country around South The vehicle needed six new tyres, four of which have already been given by a tyre concern. The other two may soon be provided by another well-wisher.

The rector himself drives the bus, which replaces a petrol-engined 29-seater that has been ferrying his parishioners for some time.

#### Leading Light

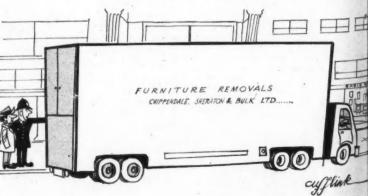
THERE is a picture, beloved of local newspaper editors, which shows a long-serving official trying to look variously embarrassed, surprised and delighted as he receives from his colleagues a "small token of their esteem" in the shape of an aneroid barometer or an eight-day chiming clock. In reality he is none of these things, because (a) he already has an aneroid barometer, (b) his rheumatism is a far more accurate meteorological guide or (c) he would much rather have had the money.

It is refreshing, therefore, to record

the genuine and justifiable delight expressed by Mr. Eric Taylor, chairman of the East London Sub-area of the Road Haulage Association, last week, when imaginative colleagues presented him with a superb pair of George III silver candlesticks (circa 1769) by William Cripps, London. The presentation marked Mr. Taylor's 26th anniversary of service to the R.H.A. And. in case the candlesticks should not shed enough light on his work, he also received an illuminated scroll.

#### Lesson in Oils

MR. A. S. BISHOP, former chairman of the Goodyear Tyre and Rubber Co. (Great Britain), Ltd., was another recipient of a less common gift. He has taken into retirement at Eastbourne an oil painting by Adolph Grison, "The Music Lesson," presented by his colleagues. He is an admirer of Grison's work and chose the picture. Apart from his cultural interests, he retains his enthusiasm for cricket and football.



"Castle Street? Yes, sir . . . down to the end of this van, then turn left."

High Hono

-By The

SIX floors up, drivers, represe behaviour on t bronze and silve safe-driving reco certainly were st there, from the II City Road, London's largest more enthralled Niagara.

At length, the picture of dozen the divisional n sleepiest) of all his bed-whence 38-year silver ba

From M.P. ABOUR'S fo

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#### ndell Snow Clough

a lot more now. Barre is a place where half the population is of Scottish extraction, which possibly accounts for the fact that this township of 10,000 hardy souls boasts no fewer than three golf links.

He went to Yale University, where he graduated in architecture. Then he came to Europe and worked for a year in an architect's office in Vienna, until that delightful city was occupied by Hitler's troops in 1938. Back home in the summer of that year, he broke away altogether from the design of houses and joined Libbey-Owens-Ford Glass Co., in Toledo, Ohio. Here, for five years, he made a study of product design, merchandising and business methods. Finally, he became assistant to the president, John D. Biggers, who, incidentally, had been managing director of Dodge Brothers before the company was absorbed by Chrysler.

When the United States went to war, Mr. Clough joined the Navy and was busy until 1946 coping with the Japanese in the Pacific. After that interlude he returned home, still imbued with the ambition to add to his commercial experience. He went first to a firm of productdesign consultants; two years later, he joined Montgomery Ward, the mail-order company, where he learned a great deal about mass selling. Then he did a five-year stand with an engineering concern specializing in heating, ventilating and air-conditioning, studying their marketing methods.



Mr. Wendell S. Clough, an American who is welcomed wherever he goes in Britain.

By The Hawk

#### High Honours

SIX floors up, in the new air-conditioned castle which houses the South-eastern Division of British Road Services, 44 drivers, representing more than 1,000 years of blameless behaviour on the roads, last week waited to receive their bronze and silver bars. If they appeared unimpressed by the blonze and silver bals. If they agreed these hardy annuals safe-driving records they had achieved, these hardy annuals satisful ware struck by the "view from the bridge." For up there, from the unfamiliar vantage point of the staff canteen at City Road, E.C.I, they could peer down upon one of London's largest transport depots. They could not have been more enthralled had they been standing on the brink of Niagara.

At length, they were persuaded away from the panoramic picture of dozens of toy vehicles, to receive their awards from the divisional manager, Mr. A. J. Wright. Proudest (and sleepiest) of all was 65-year-old George Choat, roused from his bed-whence he had retired after night duty-to receive a 38-year silver bar.

#### From M.P. to Editor

ABOUR'S former principal spokesman on transport, Mr. L Emest Davies, is back in the news. He has become editor of a new monthly journal, Traffic Engineering and Control, to be published in May. Its purpose "is to draw attention to the contribution that the application of the techniques and methods of traffic engineering can make to the improvement of the ever-worsening conditions on the roads "-a magnificent example of Parliamentary English.

He is to be assisted by a distinguished honorary editorial advisory board. It includes Mr. Wilfrid Andrews, president of the Royal Automobile Club and chairman of the Roads Campaign Council, Prof. W. Fisher Cassie, of Durham University, Mr. Christopher Brunner, director of Shell-Mex and B.P., Ltd., and vice-chairman of the British Road Federation and the International Road Federation, Sir William Black, managing director of the A.C.V. Group and chairman of the National Research and Development Corporation, and Sir William Holford, Professor of Town Planning at London

After a period in the motor industry he joined Chrysler. The company at that time had recently entered the international field and Mr. Clough was busy making a study of product and market problems overseas. His work took him for four months to Australia, where he was perfectly happy: but, in the manner of armies and large corporations, he was posted back to Detroit for a brief five days before being exported once more-this time to Kew,

That was in September, 1958. In the months that followed he took over the reins of office from Mr. Wallace and succeeded him in the chair of the managing director in January, 1959. The latest Kew Dodge truck had been in production for about six months when he took office and he modestly accepts no credit for the greatly increased production which coincided with his arrival. 1959, distribution of the French Simca car was added to the factory activities and the tempo of work accomplished has built up ever since.

Refreshingly free from the reserve with which some British captains of industry choose to shroud themselves, Mr. Clough talks amusingly and knowledgeably-in English. His small daughter's school, near their home in Kensington, does not welcome Americanisms, and as a conscientious parent, he has learnt to do without them. His 12-year-old son, on the other hand, struggles with bilingual idiom in an American school in Regent's Park.

To date, Mr. Clough has been too busy in his office and visiting Dodge dealers and users to take much part in the social life of the United States community in London. He is essentially a man who prefers to spend his spare time with his family. Teaching his son to play golf is a pleasure to which he looks forward. Perhaps it is his devotion to family life that creates in him a warm regard for the British working man. He has found loyalty to the company throughout a lifetime a feature of the British industrial scene which just does not exist in America. They are fortunate at Kew in having a man who understands and appreciates our little ways. T.W.

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#### Two Months' "Probation" Period for Febry

FROM OUR OWN CORRESPONDENT

BRISTOL, Tuesday.

OR the next two months the operations of Messrs. R. and W. A. Febry, Chipping Sodbury, Glos, will be under the scrutiny of the staff of Mr. S. W. Nelson, Western Licensing Authority. The firm's records will be examined, "silent" checks made, and a report sent to him at the end of that time. This will enable him to decide whether to suspend or revoke any of Febry's licences.

The Authority made known his intention here today when Febry had to show cause why their licences should not be suspended or revoked.

#### **B.L.T.** Tankers Grant to be Suspended

THE North Western Licensing Authority is to suspend one vehicle of Bulk Liquid Transport, Ltd., for six months. The starting date of the period has not yet been fixed. He has offered to consider any suggestion made by the company, for the benefit of customers, as to how the suspension should be arranged. B.L.T. may be allowed to take one vehicle off the road for six months, two for three months, three for two months, or some similar arrangement.

This penalty is part of the Licensing Authority's decision to grant the company's application to transfer four articulated tankers from special A licence to a public A licence (The Commercial Motor, June 5, 1959), and to transfer 14 other vehicles and two semi-trailers, all tankers, from special A to ordinary A licence (The Commercial Motor, February 12). During the hearing of both applications much was made of the conversion of platform vehicles into

Three of the outfits in the group of four were granted last year, but decision was reserved on the fourth, which is now granted. After reviewing all the circumstances in which the vehicles in question came to be specified, in the first place, on various special A licences held by Bulk Liquid Transport, the Authority concluded that in at least two instances legitimate bounds had been He decided that some exceeded. disciplinary action must be taken. Consequently, the grant in relation to the outstanding vehicle in the group of four is to be suspended for six months.

#### **42-HOUR WEEK ACCEPTED**

THE engineering employers' offer of a reduction in the working week from 44 to 42 hours, without loss of pay, was accepted last week by the Confederation of Shipbuilding and Engineering Unions. The unions have abandoned their demand for higher wages.

#### NO TAKE-OVER

THE directors of Monkton Motors, Ltd., Wallingford Road Industrial Estate, Uxbridge, Middx, have issued a denial that their company has been taken over by any other concern. **B**30

As reported in The Commercial Motor dated December 11 and December 18, 1959, Febry had appeared before Chipping Sodbury magistrates on charges of infringing the regulations on drivers' hours and records. A total of 330 summonses was considered, and there were also prosecutions against 38 drivers. Fines imposed by the magistrates exceeded £1,000.

Mr. L. R. Beattie, senior traffic examiner, also reminded Mr. Nelson today of fines amounting to £221 paid by Febry and 10 of their drivers in 1956. Witness said that last December's case arose out of a "silent" road check made in respect of Febry and other operators.

For Febry, Mr. T. D. Corpe asked Mr. Beattie what more his clients could have done to prevent their drivers from working excessive hours.

"They could have intensified their disciplinary action. Secret checks could have been made," replied Mr. Beattie. He agreed that, although the use of recorders had been suggested, these could be interfered with by drivers.

Mr. Corpe said that the magistrates concurred that Febry had taken certain precautions, but that they had not done enough. This completely negatived any suggestion that the offences were committed wilfully.

Whatever precautions an employer took, he was technically liable if record sheets turned out to be wrong. In this instance, stated Mr. Corpe, the records appeared to be correct.

Febry had a first-class record and earned a 40-per-cent, discount off their insurance premiums in respect of nonfatal accidents. The firm had taken further precautions and disciplinary action since the prosecutions. Mr. Corpe asked the Authority to consider that Febry had regular contracts involving an annual turnover of £196,000.

Mr. W. A. Febry, a partner in the firm, said that he had £300,000 invested in A licences. He had increased his staff for the purpose of examining records, and gone round the countryside checking drivers. Some had been dismissed for breaking the regulations.

The Authority said that he would take no further action if his report showed that the firm had done all they could. He was sure that it was not Mr. Febry's intention to hoodwink the law. Much of the difficulty possibly arose because Mr. Febry tried to do too much himself.

#### Council Study Scheme for Brighton

THERE were hopes in Brighton this week that the council would approve a new agreement between the three undertakings at present operating passenger services in the town and surrounding

The council yesterday discussed a plan which named the transport department, the Brighton, Hove and District Omnibus Co., Ltd., and Southdown Motor Services. Ltd., as future operators of pool facilities

in a specified zone.

The department and the Brighton. Hove and District Co. have operated a co-ordination plan since 1938. It covered an area corresponding to the old Brighton boundaries of 1919, and was based on pooled receipts. This agreement was due to end in the next year or so, The Commercial Motor was told this week.

The new proposal envisages a similar pooling of receipts from bus workings of all' three undertakings. Trolleybus receipts of the department would not be included. About half of the electric vehicles have already been replaced by motorbuses, and the remainder are scheduled to go in the near future.

#### PAY CLAIM REFERRED TO WAGES COMMITTEE

FOLLOWING discussions on the wage Claim by 58,000 municipal bus workers, the National Joint Industrial Council for the road passenger transport industry last week referred the matter to their wages committee, which will meet next Wednesday and Thursday.

After the council meeting, Mr. A. Townsend, national passenger secretary of the Transport and General Workers' Union, said that the employers had replied to the claim, made on behalf of drivers, conductors and semi-skilled maintenance workers.

The London Transport Executive last month rejected a claim for a £1-per-week increase for drivers and conductors. Approximately 100,000 employees of private bus companies in the provinces are awaiting a reply to a similar claim.

The question of maximum standing capacities in buses was also referred to the wages committee.

#### NEW CHIEF FOR R.H.A.

THE appointment of a successor to the late Mr. R. Morton Mitchell as chief executive officer of the Road Haulage Association will be considered by the Association's finance committee next Tuesday. For the past six months Mr. E. W. Russell, executive secretary, has been acting as chief executive officer.

It is not yet known whether the post will be advertised or whether a choice

has already been made.

There have been suggestions in the past that the R.H.A. should have a permanent paid president who would have influence in Government circles and carry the flag for the R.H.A. This question may now acquire point. Several well-known names are being mentioned as possibilities if the Association decide to adopt this policy.

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#### Government to Present New Rail Plan in Two Weeks: Tax Likely

BY OUR POLITICAL CORRESPONDENT

E shall see the Government's new plan for the railways by the end of the month, probably at the same time as the Guillebaud report. Only the rail strike threat has held it up. It will contain an up-to-the-minute assessment of what the railways can expect to carry when modernization is complete.

The plan, therefore, will take into account the ground that has been lost to road transport, which now carries 56 per cent. of commercial traffic.

Modernization will be scaled down where the roads have won, will be speeded up where the railways still lead—and the railways' battle is not entirely lost for they are able, through their new elasticity in charging, to compete much more effectively in some directions.

There is more and more support among back-benchers for some Government help to the railways. One favoured proposition, put up at a meeting of the Transport Committee of Tory M.P.s during the week, is that the Government should take over responsibility for maintaining the rail track, which costs the railways f100m a year.

The Government would then, it is suggested, impose on the railways a tax equivalent to the tax on diesel oil, to raise about £30m. Road and rail would then be on a par, and the railways would benefit from the transaction by £70m. a vear

The only alternative to some such scheme is to make vicious cuts in services.

Mr. Thorneycroft's exposition on the rail trouble has come badly unstuck. His attack on the Government in *The Times*, on Monday, failed to attract more than a handful of supporters.

#### Lords Hear of New System

A new form of transport said to have been invented in Salisbury by Rhodesian engineers created a flutter of interest in the Lords on Monday. Lord Hawke asked the Government if they knew anything about it. The reply was that Mr. Marples had some details about it, and had asked for more.

From Lord Milverton it transpired that patents have been taken out all over the world, and that there is to be a working model on show at next year's Central African Fair.

No one knew what this new form of transport was, but Lord Hawke wondered if it would do for transport between London and London Airport, or to link overspill areas with their mother cities.

End of Agreement on Garage Equipment

A FINAL order, by consent, was made in the Restrictive Practices Court in London on Monday in connection with an agreement between members of the Garage Equipment Association. Mr. W. A. Bagnall, for the Registrar of Restrictive Trading Agreements, said that the Association had decided to terminate the agreement with effect from February 3, 1960.

Mr. Bagnall also asked for a supplementary representation order to cover a number of companies which had joined the Association since the original representation order was made. He said that they had consented to their inclusion in the list of concerns set out in the application now before the court.

Three members of the Association had not agreed to their inclusion in the representation order but had given the Registrar an undertaking to regard themselves as bound by the same terms of the undertakings given by those representing the Association.

Having received that undertaking, the Registrar would not press for injunctions against the three.

Mr. Justice Pearson agreed that the final order should be made.

### Railways Losing to Free Hauliers

EVIDENCE of how British Railways were losing traffic to private-enterprise road hauliers was given to Mr. S. W. Nelson, Western Licensing Authority, at Bristol on Monday. Mr. George Parker, Bridport, Dorset, who makes tents for the Army, said he could not afford to employ the railways because they were too expensive and slow.

He also told the Authority that British Road Services were much dearer than private hauliers, and it paid him to go to Southampton, 60 miles away, for the transport he required. Mr. Parker was supporting the application of a Bridport haulage contractor, Mr. P. M. Browne, who applied for an A licence to carry general goods within a radius of 150 miles. He offered to surrender a B licence in respect of another vehicle.

Mr. Browne refuted a suggestion by Mr. Coningsby, for the B.T.C., who objected, that he had secured his increased business by undercutting B.R.S.

Another supporter, Mr. Roger Courteney, secretary of Messrs. Good and Son, sand and gravel merchants, West Bay, Bridport, said that his company sent pebbles for water filtering to all parts of the country. The railways took anything up to two weeks to deliver a load, and there had been an almost complete switch of traffic from B.R.S., so far as his company was concerned.

Mr. Reginald Fish, a member of Brid-

port Industrial Development Committee, cited the case of a local publican who wanted two cases of beer delivered to him at Maiden Newton by rail. The goods were sent by road to Weymouth, where they were transferred to rail and thence to their destination—a journey of 20 miles. They could not be sent direct by rail, a distance of only seven miles, because the facilities were not available. The journey took three days, he said.

Granting the application, Mr. Nelson said he could understand the reluctance of B.R.S, to lose this traffic, but this was a case of business economics, and sometimes they must expect someone else's price to be lower than their own. He considered that Bridport was entitled to better road transport facilities.

#### LONDON'S OWN TRAFFIC UNIT

LONDON is to have a new traffic management unit with Dr. G. Charlesworth at its head. Dr. Charlesworth, who has specialized in road-traffic problems for a number of years, has been seconded to the Ministry of Transport from the Road Research Laboratory.

The duties of the new unit will be to evolve and execute plans for securing the maximum use of London's streets as traffic arteries by the application of modern traffic-engineering techniques. They will consult with local authorities and the Metropolitan Police.

#### DOUBLE-ENTRANCE SINGLE-DECKERS FOR L.T.E.

To go into experimental service on Country bus routes, three A.E.C. Reliance chassis with Willowbrook bodies have been ordered by London Transport. They are designed for one-man operation.

The bodies will have driver-controlled doors at the front and centre, and seat 42 passengers. It is hoped that trial running will indicate time saved by passengers entering through the front door, and alighting from the centre exit.

The Reliances are 30 ft. long and 8 ft. wide, and are powered by the A.E.C. 7.7-litre 100 b.h.p. engine. Lightweight body construction will be used. There will be high-level windows above the cant-rail for the convenience of standing passengers. Both sets of doors will be 2 ft. 7 in. wide and power-operated.

DEATH OF MR. R. M. MITCHELL WE regret to announce the death last Saturday, after a long illness, of Mr. ROBERT MORTON MITCHELL, chief executive officer of the Road Haulage Association. He was 51.

Association. He was a member of other bodies with the R.H.A. in 1949. His career began with private legal practice in Edinburgh from 1925-31, following which he was in local-government service in Scotland until 1945. He then became general secretary of the Iron and Steel Trades Employers' Association, leaving in 1947 to become secretary of Relay Services Association of Great Britain. Apart from his office with the R.H.A., he was secretary of the National Road Transport Federation and a member of the London Travel Committee set up by the Minister of Transport. He was a member of other bodies connected with road transport and active in local politics.

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Mr. J. M. GIFFORD has been appointed European sales manager of the Aveling-Barford Group.

MR. R. S. ODD is resigning his appointment as a director and general manager of Wilmot-Breeden to become joint managing director of Lansing-Bagnall, Ltd.

MR. PETER WILLIAM HOLLEY has been appointed director and general manager of the Coventry Gauge and Tool Co. (Aust.) Pty., Ltd., Bankstown, New South Wales.

MR. James Robertson is to be released from his position as chief production engineer of Simms Motor Units, Ltd., to become special technical assistant to the managing director.

MR. KENNETH BAIRD has become manager and MR. KEITH GERRARD assistant manager of the newly constituted personnel and industrial relations division of F. Perkins, Ltd.

MR. H. J. LYNHAM, at present personal assistant to the chief engineer of the Northern General Transport Co., Ltd., has been appointed assistant engineer of the East Kent Road Car Co., Ltd.

MR. V. MARTIN-JONES, chairman of Lodge Plugs, Ltd., will leave London Airport by B.O.A.C. Comet today for a tour of agents and distributors for the company in Kenya, Southern Rhodesia and South Africa. He returns to London on March 16.

MR. G. MARDEN, home sales manager of the Spire fastenings division of Simmonds Aerocessories, Ltd., is to visit the group's factory at Ballarat, Australia. He will return via the United States, where he will visit Tinnerman Products, Inc., Cleveland, Ohio.

MR. LESLIE H. DAVIS, formerly lubricants supervisor and assistant to MR. A. E. McAULAY, lubricants manager of Scottish Oils and Shell-Mex, Ltd., has been appointed lubricants manager of the southern division of Shell-Mex and B.P., Ltd., Southampton. MR. W. W. HARROW has succeeded him in Scotland.

MR. M. A. HOLMES has been appointed chairman of Bristol Commercial Vehicles, Ltd., and Eastern Coach Works, Ltd., from March 31, in place of MR. S. KENNEDY, who, as previously announced, is also succeeded by Mr. Holmes as chairman of the Tilling Group. MR. C. H. PICKETT, director of the Bristol Omnibus Co., Ltd., becomes chairman of the company and a director of Hants and Dorset Motor Services, Ltd., and the Southern Vectis Omnibus Co., Ltd. MR. T. W. H. GAILEY becomes chairman of Red and White Services, Ltd., and United Welsh Services, Ltd., and a director of the Bristol Omnibus Co., Ltd.



Mr. J. E. Hollands.

MR. W. A. DUCKWORTH has been appointed northern representative of the heavy frictions division of Gandy, Ltd.

MR. JOHN ANDERSON, who has been traffic manager of Middlesbrough Co-operative Society, Ltd., for 28 years, has retired.

MR. H. O. HALLAS, manager of the Middle East zone of F. Perkins, Ltd., leaves on Tuesday for visits to Turkey, Egypt, Amman, Cyprus and Greece.

MR. C. LONGDEN, previously Sheffield depot manager, has been appointed district manager at the Middlesbrough branch of Kerry's (Great Britain), Ltd.

MR. F. P. D. TAYLOR has been appointed to the board of Maidstone and District Motor Services, Ltd., in place of MR, C. W. G. ELLIFF, who has resigned.

MR. R. E. Morris has been appointed manager of accessories and repair materials of the tyre replacement division of the Goodyear Tyre and Rubber Co. (Great Britain), Ltd. He was previously Midland sales representative. Mr. F. FOXLEY, dealer relations manager at Wolverhampton, has completed 40 years' service.

MR. J. E. HOLLANDS, chief engineer of the North Western Road Car Co., Ltd., has been appointed group engineer to Canadian Motorways, Ltd., whose haulage and household-removals activities are spread throughout Canada. He was previously rolling-stock engineer with the Birmingham and Midland Motor Omnibus Co., Ltd., after serving an apprenticeship with A.E.C., Ltd.

MR. D. G. STOKES, director and general sales and service manager of Leyland Motors, Ltd., and Mr. Stanley Markland, director and works manager, have flown to India to discuss with executives of Ashok Leyland, Ltd., Madras, how to increase output, Ashok Leyland raised Comet production by 28 per cent. last year, but demand is outstripping factory capacity.

#### Micrograms . . .

Italian Production: Last year Italian vehicle manufacturers produced 30,110 commercial vehicles.

Price Reduction: The retail price of Lodge plugs was reduced from 5s. 6d. to 5s. on Monday.

By-pass Opening: The £3\frac{1}{2}m. Lancaster by-pass will be opened by the Minister of Transport on April 11.

10,000 Rebuilds: More than 10,000 reconditioned engines were produced by the Perkins group in 1959.

Doubled Output: The Berliet-Maroc lorry assembly plant at Ain es Sebaa, Casablanca, may double its output this year to 1,000 vehicles.

Fastest Ambulance?: In a test run on the M1, a Dennis AV4 ambulance covered 20 miles at an average speed of 72.2 m.p.h. without reaching its maximum speed.

Cleansing Meeting: The annual meeting of the north-western centre of the Institute of Public Cleansing will be held at the Town Hall, Birkenhead, on March 4 at 10 a.m.

Bodies for Indonesia: Under the Colombo Plan, Freighters, Ltd., an Australian concern, have been awarded a £250,000 contract for the supply of 100 bus bodies to Indonesia.

Ben Annual: The annual meeting of the Motor and Cycle Trades Benevolent Fund will be held at the Connaught Rooms, Great Queen Street, London, W.C.2, on March 1 at 11.15 a.m

I.o.T. Societies: Graduate and student societies of the Institute of Transport are to be formed at Chester, and at Bulawayo, Southern Rhodesia. A Nyasaland group is also to be established.

Newcastle Ban: In an effort to reduce traffic congestion, Newcastle upon Tyne City Council have approved a recommendation to ban loading and unloading in the city centre during peak hours.

Built-in Heating: Electrical heating cables, thermostatically controlled, have been built into the road surface of the Hook Road underpass, on the Kingston by-pass, which was opened by the Minister of Transport last week.

£100,000 Jubilee: The Skefko Ball Bearing Co., Ltd., will set aside £100,000 for the benefit of their employees to mark their golden jubilee. Much of this sum will augment sickness benefits and assist in cases of hardship.

Attacks on Outsize Loads: The question of mounting attacks on the carriage of abnormal indivisible loads by road is likely to be raised at the annual general meeting of the heavy haulage group of the Road Haulage Association in London next Thursday.

Bonus Scheme Continues: Manchester Passenger Transport Committee have advised the Municipal Passenger Transport Employers' Federation that they will continue their traffic bonus scheme for the time being. It is due for review next February.

Leyland Aircraft: A de Havilland Dove aircraft, equipped to carry six passengers, has been ordered by Leyland Motors, Ltd. It will be based at Salmesbury, eight miles from Leyland, and used to maintain liaison between the company's plants and customers at home and overseas.

Tonnage Increased: "The results of the operations of the transport fleet are similar to those of the preceding year," says Sir Fric A. Carpenter, chairman of Lloyd's Packing Warchouses (Holdings), Ltd., in his report for the year to September 30 last. There was a slight increase in tonnage.

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#### Ministry Engineers Promoted

APPOINTMENTS made within the Ministry of Transport involve Mr. C. E. Hollinghurst relinquishing his position as Metropolitan divisional road engineer to take up the post of deputy chief civil engineer. His former position is taken by Mr. J. A. S. Dakers.

Mr. H. S. Keep is leaving his position of south-eastern divisional engineer to become assistant chief engineer at headquarters. His previous job is taken by Mr. T. E. Hutton. Mr. L. P. F. Hubbard becomes south-western divisional road engineer in succession to Mr. Hutton.

#### COACH OWNERS TO MEET

INDEPENDENT passenger - vehicle owners in the Western Traffic Area are being invited to attend a meeting on April 5 to agree to certain matters in regard to the newly formed Coach Operators' Federation. The meeting will Operators rederation. The meeting win be held at the Trecarn Hotel, Babba-combe, Torquay, under the auspices of the South-Western (Provincial) Joint Industrial Council, the honorary secretary of which is Mr. A. J. Coxwell, 571 Fishponds Road, Bristol.

Mr. Coxwell is also secretary of the C.O.F. The council will be meeting on April 4 and 5.

#### CLYDE TUNNEL PLANS

AUTHORITY has been given to Glasgow Corporation by the Government to prepare plans for permanent approach roads on the Linthouse side of the Clyde Tunnel. These roads, which will cost about £7.7m., will run underneath Govan Road. The tunnel will cost

#### Tories Press for Rail Inquiry

CONSERVATIVE M.P.s on Tuesday - heavily supported a motion tabled in the House of Commons urging a fullscale inquiry into the future of the rail-The Government, writes our ways. political correspondent, have never closed their mind to such an investigation, one object of which would be to settle the relative positions of road and rail trans-

The motion gives Mr. Ernest Marples, Minister of Transport, the opportunity of setting up an inquiry if he wishes, but urges that a report should be made within

#### LIVERPOOL FIGHT DECLINE

A CAMPAIGN designed to reduce the decline in bus receipts caused by the growth of private transport and the popularity of television has been inaugurated in Liverpool. The city publicity department have prepared four posters which will appear on 150 of the transport department's buses.

The posters will emphasize the difficulties of motorists in congested traffic conditions and the problems of finding a car park, and use the slogan "Go by Bus." The same wording will The same wording will appear on all departmental mail.

#### SCOTS OUTPUT IN 1961

THE £9m. factory which the British Motor Corporation are to build at Bathgate, West Lothian, may be in production in the summer of next year-six months earlier than expected. Work on laying the foundations may begin in the next three months.

## "Commissioners' Assumption Wrong"

THE assumption by the West Midland Traffic Commissioners that a circle with a four-mile radius of Oakengates was within the catchment area of Salopia Saloon Coaches, Ltd., Whitchurch, was wrong. Mr. K. Mynett, representing the Shropshire Omnibus Association, told a Ministry of Transport inspector this at Birmingham, on Tuesday, when S.O.A. appealed against a decision by the Commissioners.

Salopia had been granted a licence for express services from Donnington to Shrewsbury and Whitchurch to act as feeders for extended tours. At the same time the Commissioners had refused an application by S.O.A. for extended tours from Oakengates.

There was no dispute over whether extended-tour facilities were required, said Mr. Mynett. The point at issue was whether the local operators should provide the facilities, either solely or in conjunction with Salopia, or whether the local operators should be excluded.

It was a matter of considerable importance, he added, and told the inspector that every operator in the area, with the exception of the Birmingham and Midland Motor Omnibus Co., Ltd., was appealing against the decision. Only 3 per cent. of Salopia's extendedtour passengers came from the Oakengates district, he pointed out.

Mr. Mynett declared that the Commissioners were also wrong when they paid only the slightest attention to the fact that S.O.A. had provided all publictransport facilities in the area for many years. They were wrong, too, in sug-gesting that feeder services by Salopia were as satisfactory as the Association's proposals.

For Salopia, Mr. E. S. Fay, Q.C. claimed that the decision should stand in the public interest. Just because an operator was experienced in day and half-day excursions, it did not necessarily follow that he was fitted to run extended holiday tours, he added.

Mr. Fay reminded the inspector that the original application by S.O.A. was for an eight-mile radius. It had been reduced to four miles. Within the wider radius the percentage of passengers using Salopia tours was 4.2. In the smaller area it was 3.1 per cent. With the high cost of operating extended tours, it was essential that an operator should have a wide catchment area, he contended.

#### NEW TRANSPORT COMPANIES

NEW TRANSPORT COMPANIES

P. N. Owen, Ltd. Cap. £100. Dirs: P. N. Owen, Swan Inn, Fradley Junction. Alrewas, Burton-on-Trent, and J. T. Burrows. 102 Wake Green Road, Moseley, Birmingham. Sec. J. T. Burrows. Reg. office: Swan Inn, Fradley Junction. A. E. Newens, Ltd. Cap. £100. Dirs: A. E. Newens, Ltd. Cap. £100. Dirs: A. E. Newens, Ltd. Cap. £100. Dirs: A. E. Owens, Sec. S. T. Lander, Reg. office: 31 Quilter Street, Columbia Road, London, E.2. G. Howlett and Son (Quorn), Ltd. Cap. £10.000, Dirs: H. T. Noon and Mrs. E. Noon, 96 Barrow Road, Quorn, Leics. Sec.: H. T. Noon, Reg. office: 94 Barrow Road, Quorn, Cap. £1.000, Dirs: S. Hackett and Mrs. A. N. Hackett, Lake-side, Anglesey Drive. Poynton. Cheshire. Reg. office: 94 Backett and Mrs. A. H. Hackett, Lake-side, Anglesey Drive. Poynton. Cheshire. Reg. office: 40 Kennedy Street, Manchester.

Hacketts Transport (1960), Ltd. Cap. £1.000. Other particulars as for Hacketts Hauliers (1960), Ltd.

Other particulars as for Hacketts Hauliers (1960).
Ltd.
Taylor (Bulk Haulage), Ltd. Cap. £1,000. Dirs.:
J. Taylor, and Mrs. E. Taylor, 6 Victoria Road,
Newton-le-Willows, Lancs. Sec.: J. Taylor, Reg.
office: 6 Victoria Road, Newton-le-Willows.
Systematic Transport, Ltd. Cap. £25,000. Subs.:
D. H. Kirk. 75 Ryecroft Road, London, S.W. lo.
and P. Laurence, 43 Chestnut Avenue, Southborough, Tunbridge Wells. Sec.: F. C. Nelson, I.
Old Burlington Street, London, W.I.
Wayridge Transport (Newport), Ltd. Cap. £300,
Dirs.: D. Hayward and Mrs. M. D. Hayward, Bryn
lvor, 60 Allt-yr-yn Avenue, Newport, Mon.
W. G. Williams and Sons (Haulage), Ltd. Cap.
£1,000. Dirs.: T. D. Williams, 36 Brynamman
Road, Brynamman, and D. O. Devereaux, 96
Gwilym Road, Cwmllynfell, Sec.: T. D. Williams,
Reg. office: 36 Brynamman Road, Brynamman,
F. Turnbull and Son, Ltd. Cap. £7,000. Dirs.:
F. Turnbull and Mrs. E. M. Turnbull, Broomfield,
Wrelton, Pickering, Yorks,
Rotamik Concrete (Transport), Ltd. Cap. £2,000.
Dirs.: E. C. Evans, 11 Park Avenue, Goldthorn
Park, Wolverhampton, and F. Wright, I. ConcyBere Gardens, Brewood, Stafford, Sec.: E. C.
Evans, Reg. office: 64 Bath Road, Wolverhampton.

#### 100,000-mile Tyre Life at Speed

TYRE mileages of well over 100,000 were being obtained on heavy vehicles operating at continuous high speeds in the U.S.A. This was one of the points mentioned by Mr. John Moon, technical editor of The Commercial Motor, when he spoke to the Eastern Area of the Traders' Road Transport Association at Ipswich on Wednesday.

His subject was the use of commercial vehicles on motorways. The importance of good braking was emphasized, and Mr. Moon observed that so far disc brakes had presented a number of unusual problems, including the melting of grease in wheel hubs.

An ideal maximum-capacity eightwheeler needed an engine of at least 200 b.h.p., with an axle ratio of up to 5 to 1, to take full advantage of motorways, added Mr. Moon.

#### MORE POWERFUL P.T.-O.

A MORE powerful power take-off for certain Leyland and Albion vehicles has been introduced by the Leyland group. It is available in low- and highspeed versions for fitting to the righthand side of the gearboxes of Leyland Comet CS.3 and ECO2 models, Super Comet, Albion Chieftain, Clydesdale and

A'pump feeds oil under pressure to all bearings. The output shaft of the highspeed p.t.-o. runs at 0.933 engine speed, whilst the low-speed unit runs at 0.612 engine speed. The low-speed p.t.-o. is intended for light-duty applications.

et are similar ar," says Sir of Lloyd's of Lloyd, b. Ltd., in his onber 30 last. tonnage.

## Four Vehicles Obtained Out of 150

SUB-CONTRACTING in the Kidderminster area is so difficult that, of 150 vehicles sought, only four have been obtained. This was the picture presented to Mr. L. Hall, West Midland Deputy Licensing Authority, at Birmingham, on February 11, when Crossroads Transport (Gildersome). Ltd., Dewsbury, applied for a new A licence to put two articulated units on collection and delivery within

20 miles of Kidderminster.

Mr. J. Foley Egginton, for the applicants, said the company's main base was at Dewsbury, where they had 16 vehicles on A licence and five on B licence from the Yorkshire Traffic Area. Trunk services were operated between the Midlands, Yorkshire and Scotland, and the traffic to and from Kidderminster consisted mainly of textiles and wool for the carpet trade. Because of the bulky nature of the work long platforms were required and the fleet was being re-equipped with a number of articulated vehicles. At present, vehicles on the regular run between Yorkshire and Kidderminster were having to do their own collection and delivery. Instead of a day round trip, vehicles leaving Yorkshire on Tuesday did not get back until Thursday.

Mr. R. A. Edwards, a director, said his own company, R. W. Edwards and Sons, took over the shares of Crossroads Transport in 1946. In order to facilitate interchange of vehicles the two companies were amalgamated in March, 1959. With rigid vehicles they had been forced to load over the cab and the company considered articulated vehicles to be the answer. Hiring proved almost impossible, and the schedules produced showed that out of 150 attempts only four vehicles had been obtained.

Objecting, for five local hauliers, Mr. N. Carless submitted that the applicants had not supplied sufficient evidence to answer the questions the Transport Tribunal had said were essential in the Munroe's Transport appeal.

Although it appeared there were no spare vehicles in the area for journeys to Yorkshire, it did not mean there were none available for collection and

delivery.

Granting the applicants one vehicle only, with a normal user as sought, Mr. Hall said objectors had called no evidence and he was satisfied (a) that the applicants' fleet was fully employed; (b) that a collection and delivery vehicle would help; (c) that there was difficulty in hiring; and (d) that customers had suffered inconvenience.

#### WOOL HAULIERS WARNED OF " DEVELOPMENTS "

AULIERS who carry wool from HAULIERS who carry wood farms may find it necessary to take joint action in view of developments that have been reported to the Association.' states a cryptic paragraph in the February issue of Road Way, official organ of the Road Haulage Association. "Members engaged in this traffic are therefore strongly advised to get into touch with their area secretaries.

The Commercial Motor was unable on Tuesday to obtain amplification of the notice. It is possible, however, that wool interests may be proposing to follow the example of the Central Electricity Generating Board in the case of coal, and conclude an agreement with the railways which would exclude hauliers from wool

transport.

# Protection for Through-service Link?

SUGGESTION that a linked A through-service from Huddersfield Llandudno was not entitled to protection because there was no direct licence was disputed before the Yorkshire Traffic Commissioners at Leeds last week. It was made by Hanson's Buses, Ltd., Huddersfield, who were applying to extend their express service between Huddersfield and North Wales. claimed that if traffic carried in that way was disregarded no operator of a lawful and authorized connecting service could object to a new applicant.

Objections came from the Liverpool-

Newcastle pool operators.

For the applicants, Mr. J. Evans sought to extend the operational period from the two Saturdays of the Huddersfield textile and engineering holidays, in July, to all Saturdays from June to September. They wanted to increase their vehicle allowance from one on each departure to 10 in July and August and two in June and September.

The present allowance was absurd and hundreds of people were being turned away every year, said Mr. Evans. Hansons were the only company licensed for a direct service from Huddersfield to Llandudno and although the pool operated through-journeys linking Manchester. Hansons contended that as they were the local operators this was their traffic.

Mr. W. R. Hargrave, for the pool operators, said that the application was one to share traffic which was already being carried. The pool, with their unlimited duplications, could deal with all demands, he added.

Maj. F. S. Eastwood, chairman, was told by Mr. W. Wooley, assistant traffic manager of North Western Road Car Co., Ltd., that at a recent case in Sheffield, jointly heard by the York-shire and North Western Traffic Commissioners, linking was not interfered with

The Commissioners were, in effect, being asked, by Mr. Evans, to protect express road services, but a Leeds-Manchester licence held by the pool, and linked at Manchester, was an express licence to North Wales operated by North Western Road Car Co., Ltd., and not entitled to protection, he added.

The application was refused.

#### Should Starting Points Be Given Up?

SHOULD a company moving to a new bus station give up their existing starting points or be allowed to retain them for picking up passengers?

This question was argued before the North Western Traffic Commissioners on Monday, when they learned that Ribble Motor Services, Ltd., had provided a new station in Skelhorne Street, Liverpool. next to Lime Street railway terminus. The station's lower level was for stage-carriage services, and the upper, which would be ready at Easter, for excursions and express facilities.

Ribble wished to modify the starting points named on their express and excursion licences to Skelhorne Street, but retain the present departure points for the collection of passengers. Mr. F. D. Walker, for Ribble, explained, 32,000 people used the Islington point, and its loss, together with the others, would be a commercial gain to his clients' competitors. At least three years would be needed to educate the public to use the new station.

Ribble had assured the police that they would quit Islington as soon as possible to facilitate Liverpool's street-widening and one-way traffic schemes. Mr. G. Dawes, traffic assistant, accused the objectors of using the application to gain advantages.

Mr. J. Booth, for the objectors, said that it was inevitable that Ribble would abstract competitors' traffic by grouping under one roof.

The second day's sitting was postponed

#### REJECTIONS FOLLOW TALKS

FOLLOWING a private meeting between Mr. F. Williamson, North Western Licensing Authority, Messrs. Lytham Bros., Woolton, and M. McKenna, Ltd. (The Commercial Motor. January 8) the Authority decided this week to refuse applications by both parties.

The meeting was held in an effort to find a solution to a take-over dispute concerning three vehicles totalling 20 tons unladen. Lytham applied for a renewal of their A licence and McKenna sought to take over the business.

McKenna will now seek to add the three vehicles, which have been operated by them under the authority of the Lytham licence since 1956, to their own A licence

#### TWO MONTHS' SUSPENSION

IN a decision published on Tuesday. Mr. A. H. Jolliffe, North Western Deputy Licensing Authority, suspended a vehicle belonging to J. Marsh and Sons (Blackpool), Ltd., for a period of two months starting on March 1.

At a hearing at Lytham on January 28. Marsh applied for the renewal of an A licence for two vehicles to carry general goods within 24 miles.

It was revealed at the hearing that they had been regularly carrying biscuits from Blackpool to London.

February

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This Douglas 6 × 6 gritter-snowplough was in action on the M1 last week-end. It has a Rolls-Royce petrol engine, fully automatic transmission, and spreads salt at up to 40 m.p.h. The rubber lower edge on the plough blade clears slush and snow down to ground level, unlike all-metal ploughs.

## Stiff Trial for M1 Organization

SEVERE frost and heavy, if brief, snowfalls last Saturday provided the stiffest test so far for the organization set up by the Ministry of Transport to keep the M1 clear for traffic under all weather conditions (The Commercial Motor, January 8, 1960).

Contrary to some reports, ice formation on the motorway was kept well under control by salt, whilst snow which did settle was cleared successfully by the special ploughs now going into service. These have rubber squeegees at their lower edges.

After talking on Monday to the men responsible for clearing the Buckinghamshire section of the motorway, a representative of The Commercial Motor was convinced that the accidents which occurred last Saturday morning were, in the main, caused by the thin layer of slush left on the road as the salt, which had been spread during the previous night and that morning, melted the snow as it fell. The slush was shifted rapidly from the middle and near-side lanes by the passing traffic but lingered in the lessused fast lanes until cleared by

Slush can be very slippery. Although sand or gravel could be distributed by the local authorities to overcome this, it is not desirable to spread these materials on a fast road, where they could be thrown up to damage windscreens and paintwork. It is thought better to let passing traffic carry out the clearance although, as more squeegee-type ploughs become available, it may be possible to remove slush.

Last week-end was also a good test for the first examples of the special six- and eight-wheeled gritter-snowploughs (The Commercial Motor, November 13, 1959) which are now going into service.

The Commercial Motor accompanied precautionary salt-spreading run last Monday. It took place at about 6 p.m. and the vehicle used was one of the new Douglas 6 x 6 gritters powered by a Rolls-Royce petrol engine driving through a fully automatic transmission of the same manufacture.

The vehicle was fitted with a singleangle snowplough blade giving an effective sweeping width of 9 ft. 6 in.

This made an impressive foreground looking forward from the cab of the vehicle as it travelled down the centre lane of the carriageway at nearly 40 m.p.h., spreading salt at 4 oz. to the sq. yd. The spreading vehicle covered 16 miles in 33 minutes.

Bad conditions did not prevent the London-service coaches of the Birmingham and Midland Motor Omnibus Co., Ltd., from reaching their terminals ahead

DAIMLERS FOR KOWLOON

CONTRACT for the purchase of a A further 40 Daimler double-deck buses has been signed by the Kowloon Motor Bus Co. (1933), Ltd., Hong Kong. They will be powered by Gardner 5LW oil engines.

#### Stage-service Claim Rejected

THE Minister of Transport has dismissed appeals by J. Laurie and Co. against the Scottish Traffic Commissioners' refusal to allow them to run a stage service between East Kilbride and Eaglesham and to grant the Central S.M.T. Co., Ltd., five stage service from East Kilbride.

He has not accepted Laurie's argument that their application should have been heard in isolation. He agrees with Mr. J. J. Cunningham, Q.C., who heard the appeal, that the common practice of considering interrelated applications together was appropriate.

In their decision, the Commissioners had regard to the operation of unremunerative services by Central S.M.1. The Minister says he "has no wish to diminish the importance of this factor in general, but he has not himself given much weight to it in this case, since the evidence on the point seems to him somewhat inconclusive."

#### COMMERS ON SHOW

TIVE light commercial vehicles are to be exhibited by the Rootes Group at this year's Geneva Show, which opens on March 10. They will be a Commer 15-cwt. van, a Routevendor mobile shop and a caravan based on the 15-cwt. vehicle; a Commer Cob van and a Karrier Gamecock 3-4-tonner.

At the Leipzig fair, which opens on February 28, the Group will be showing a Commer 12-seat bus and a 7-ton lorry with two-stroke multi-fuel engine.

#### TESTS ON TRAILER

CRANES 100-ton trailer to be used A CRANES 100-ton transit to a control to carry hydro-electric machinery from La Coruna, Spain, to a new station at Belesar, on the river Mino, has been tested over 18 miles of narrow, twisting roads to teach the Spanish crew.

The unit is 112 ft, long and has been delivered to Fuerzas Electricas del Noroeste, S.A., Fenosa. The tractor is a Scammell Constructor.

# Bus Operators Admit Licence Breaches

BREACHES of conditions on an express licence operative between the R.A.F. Station, Valley, Anglesey, and Manchester and Liverpool, were admitted by Messrs. T. A. Milburn and Son. Gaerwen, at Valley magistrates court last week. They pleaded guilty to charging fares under those authorized, charging single fares when not authorized and picking-up and setting-down at unauthorized points. Fines totalling £13 11s. 6d., including £3 11s. 6d. advocate's fee, were imposed.

For the North Western Traffic Commissioners, Mr. R. H. Ellis Davies said that an investigation revealed that on a large number of occasions there had been breaches of the conditions. The present charges were on four counts and represented a cross-section of the whole. The defendants pleaded that the breaches were made to oblige the camp personnel, and make the operation economic.

In extenuation, Mr. P. Hughes, for Milburn, said that it was the first time in his experience that anyone had been convicted for undercharging. He instanced a case of an airman being undercharged because he did not have sufficient money. On another occasion an airman who had made the outward journey by car, which had broken down, requested permission to make the return journey and paid a single fare. These breaches had not affected the traffic of either Crosville Motor Services, Ltd., or British Railways.

When T. A. Milburn's licence was last renewed, the firm were warned of the consequences of irregular operation. Crosville and the railways had objected on the ground of previous irregularities.

## Six-week Suspension Imposed on Wisbech Operator's Vehicles

WISBECH man, convicted of a series of offences in connection with his business, had five C licence vehicles suspended for six weeks when he appeared before Mr. W. P. S. Ormond, Eastern Licensing Authority, at Peterborough, last week.

The operator, Mr. David J. Thomas. of Cromwell Road, Wisbech, was represented by Mr. S. J. Green, who said that most of the offences for which he had been convicted recently were committed before October 1, last year-the date two vehicles were suspended by the same Authority. He added that a limited company had now been formed on Thomas' behalf and, in due course, application would be made for the company's vehicles to be authorized on A licences.

Mr. Ormond reminded Thomas he was warned last October that recurrence of offences would lead to another inquiry and the consequences might be serious. He referred to a schedule of offences for which Thomas had been convicted since October 1 last. These included breaches of conditions of C licences, failing to keep records and failing to cause them to be kept.

Thomas replied that they all occurred

before October, many of them in June and July last year.

Mr. Green endorsed this and pointed out that after October 1 there was nothing Thomas could do to prevent his being prosecuted for offences that had already been committed, although the prosecutions led to his being brought before the Authority again.

Giving his decision, Mr. Ormond said the Authority had said more than once, recently, that operators who committed irregularities had to pay for them, because of the large number of people who operated according to the terms of the Traffic Acts.

There had been a tightening up in all Areas on this point and there had been many more suspensions, even revocations. in the past two years than in previous years. Mr. Ormond noted that the offences in question were committed before October 1, when Thomas was last before the Authority, and he had no doubt that since then no further offences had been committed.

That did not alter the position, however, because by October 1 the matters had not been before the Magistrates' Courts and were therefore not established. He would suspend five vehicles for six weeks from Monday, February 22.

#### "Chaotic Congestion" in Fruit Market

TRAFFIC congestion in Manchester's Smithfield fruit and vegetable arket, which was described as market, which was described as "chaotic," brought constant complaints from the police, said Mr. A. C. Clayton, president of the Smithfield Market bresident of the Smithleid Market Traders' Association, in Manchester lad week. He told Mr. F. Williamson, North-Western Licensing Authority, that he considered James Holden (Crumpsall), Ltd., were largely responsible for this

The company were applying to add four new vehicles of 18 tons to their A licence, with a normal user of "fresh fruit and vegetables, paper, steel, wire and cooking-fats, Lancashire, London, Southampton, Portsmouth and Berks.

For the applicants, Mr. J. A. Dunkerley stated that in 1956 a by-law had been passed prohibiting the use of trailers of any kind in the market. This ruled out the use of articulated units. Holden had been granted four additional vehicles in place of two articulated outfits soon afterwards.

Large vehicles were the main cause of congestion, said Mr. J. Holden, director, Smaller vehicles were the answer. They had done a large amount of subcontracting in the past to operate their trunk service to London, but Mr. J. Wrottesley, for the British Transport Commission, who objected, said that the amount of hiring did not justify four extra vehicles.

Mr. Holden told the Authority that an application for additional vehicles had also been made to the Metropolitan Licensing Authority, but that no decision would be given until the present hearing was concluded.

The case will continue.

#### McVEIGH AND CUSICK AMALGAMATE

BIG haulage merger took place last A week. McVeigh Transport, Ltd., who have 100 vehicles, with bases at Grimsby, Hull, Manchester, Glasgow. Liverpool, London, Birmingham, Louth and Scarborough, acquired a controlling interest in Cusick Transport, Ltd., Manchester, and a half interest in Cusick Transport (Southern), Ltd., Parkstone. Dorset.

The Cusick companies have 67 vehicles, ranging in size up to eight-wheelers. Cusick Transport, Ltd., with 44 vehicles, have depots in Manchester. Glasgow and Liverpool, which are being taken over by McVeigh Transport. The Parkstone company specialize in parcels and smalls.

#### NEW DAVID BROWN GEARBOX

SIX-SPEED gearbox for vehicles A SIX-SPEED gearbox for running at up to 22 tons gross weight has been added to the David Brown range. It is known as the DB 657, and is offered with alternative ratios providing either an overdrive top gear of direct drive, and a very low bottom ratio.

An order for 100 of the new units has already been received.

# 44 Charges Admitted to Magistrates

OWNER of a Leicestershire haulage business, Mrs. Dorothy Irene Jackson, pleaded guilty at Leicester County Magistrates' Court this week to 22 charges of using a goods vehicle with no carrier's licence and 22 of using an identity certificate with intent to deceive.

Her husband, Mr. Harry Jackson,

manager of the business, pleaded guilty to aiding and abetting each offence.

On the first charge of using the vehicle without a carrier's licence, Mrs. Jackson was fined £5. Her husband was fined £5 for aiding and abetting. For using a document with intent to deceive on one occasion, each was fined £5.

On all other offences, the couple were granted an absolute discharge on the payment of 4s, court costs in each case and

the advocate's fee of four guineas.

Prosecuting, Mr. John Bray said Mrs. Jackson's lorry was stopped for a check by an officer of the Licensing Authority. It was carrying an identity certificate relating to another vehicle. The driver said he was employed by Mrs. Jackson and knew nothing about the lorry bearing a wrong certificate. A further check revealed that the lorry had been used on 22 dates during August for carrying goods to Northamptonshire while it was not licensed.

The certificates had been issued for a lorry which had since been sold by Jacksons-and, alleged Mr. Brav, no steps had been taken to obtain a licence for the bigger vehicle which replaced the lorry.

Mr. Harry Jackson, in a statement, said that in his ignorance he had transferred the licence from the old lorry to the new

Mr. Ian McKinnell, defending, said the list of summons contained 88 items but only two offences were involved. Claiming that there was no intent to deceive, Mr. McKinnell went on, " Proper records were kept for this vehicle. There was no question of pretending that this vehicle was not on the road."

#### MUNICIPAL OPPORTUNITIES

MUNICIPAL OPPORTUNITIES

Wallasey Works Committee wish to obtain two
S.D. refuse collectors,
Salford City Council are advised to buy a B.M.C.
Byton lorry from Lookers, Ltd.
Southport Vehicles Committee wish to buy a
Jeep from Thompson-Doxey, Ltd.
Stoke-on-Trent Corporation are advised to obtain
four Dennis Tippax refuse collectors.
Douglas (Isle of Man) Fire Brigade Sub-committee
wish to replace a Merryweather appliance.
Burton-on-Trent Fire Brigade Committee require
tenders for the supply of a 10-12-cwt. van,
Smethwick Boroush Council are recommended to
purchase a Morris 12 van from E. E. Brown and
Co., Ltd.

Co., Ltd.

Hastings Vehicles Committee wish to buy a Lewin sweeper and Thames-Eagle 4-tonner from J. Hollingsworth, Ltd.

Wolverhampton Corporation are recommended to purchase a Commer 15-cwt, van from Wolverhampton Motor Services, Ltd., also a Lewin sweeper, Blackpool Cleansing Committee wish to order four street-orderly trucks and four refuse collectors. The transport committee seek tenders for the supply of three tipners.

three tippers.

Burnley Finance Committee have deferred consideration of the purchase of a Commer fire appliance from Carmichael and Sons (Worcester).

Ltd., until next year,

Doncaster Watch Committee wish to buy a Redford 10-12-ewt, van from Thompson Motors, 1d. The restaurant committee recommend that a Redford 15-ewt, van be obtained.

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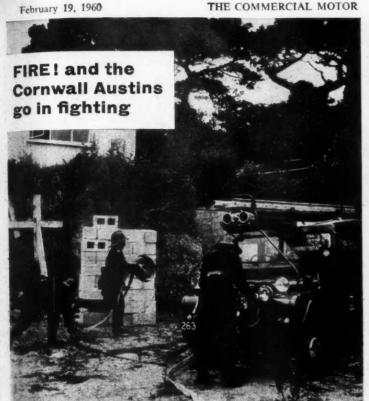
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Gipsy fire fighter. With 4 man crew the Cornwall Fire Brigade Gipsys weigh 2 ton 6 cwt. Standard at includes a front-mounted 500 g.p.m. Coventry Climax pump. The extended roof trough take 2 10 ft. lengths of 4 in. suction hose. Side apertures are fitted with roller shutter blinds.



Escape training—42 feet up. Waiting below, a Gppy and Austin 5 ton pump escape which carries the 50 ft. wheeled escape ladder. The Brigade's 5 tomers, fully manned and equipped, carry a total wight of 7 ton 15 cwt. Chassis are of 1940, 1949 and 1990 vinasee.



Danger—Mineshaft. 2,000 unprotected mineshafts pockmark the Redruth-Camborne area, many over 200 ft. deep with mouths concelled by vegetation. Firemen descend by breeches buoy to haul up trapped animals. Between them they have collected 136 awards.

ALARM—FIRE! A gleaming Austin Gipsy hurtles from a Cornish Fire station. Behind it, bells clanging, roars a second engine—a pump escape for town fires or blazing chimneys. A water tender for country calls to isolated farmhouses, heath or forest fires. Both on Austin 5 ton chassis.

The 30 fire stations in Cornwall get an average of 1,500 calls a year. Some 500 are special service calls, including rescue calls etc. that take emergency and rescue tenders to cliff faces, tide-trapped

holidaymakers, grim gaping mineshafts, road, rail or air crashes. These vehicles, mounted on 1940 2 ton Austin chassis, carry full equipment for any emergency.

Also mounted on these 2 ton chassis are canteen and mobile service vans, stores vans and towing vehicles. All 2 and 5 tonners are powered by a special 106 b.h.p. high speed engine developed for the Cornwall Fire Brigade by Austin

The men-and the machines Lives may depend on a fireman's skill. And he



A typical Cornish atreet—and no joke when you're going top speed to a fire. Country lanes are equally hazardous. "Here", says Chief Fire Officer Christmas, "my Gipsys really score—and they can cross rough open country to get right up to a fire."

depends on his vehicles, Mr. B. A. Christmas, M.B.E., Chief Fire Officer for Cornwall, says, "Our vehicles must go where we want them to go, go darned fast and never let us down." His 74 vehicles, including 1 and 1 ton personnel vans, are all Austins. "Standardisation", says Mr. Christmas, "is more economical and more efficient, particularly when you carry a large supply of spares. I have standardised on Austin and am completely satisfied."

Newcomers-and a major success-are the 7 Gipsy Fire Engines. 4 more are on order and the Gipsy has been adapted as a control unit for major incidents.

Cornish roads are hazardous-narrow, twisting, steep. Cornish towns are nerveracking to speed through. "Here", says Mr. Christmas, "my Gipsys really score. They maintain high speeds safely and in four-wheel drive they get right up to fires across open country.

The Austin commercial range includes all-purpose vehicles from 1 ton to 7 tons, plus prime movers 15 ton gross train weights. L.W.B. or S.W.B. Petrol or diesel engines. All available as chassis/cab/ scuttle units for special bodywork. 12 months' warranty and backing of B.M.C. Service.



THE AUSTIN MOTOR COMPANY LIMITED LONGBRIDGE . BIRMINGHAM



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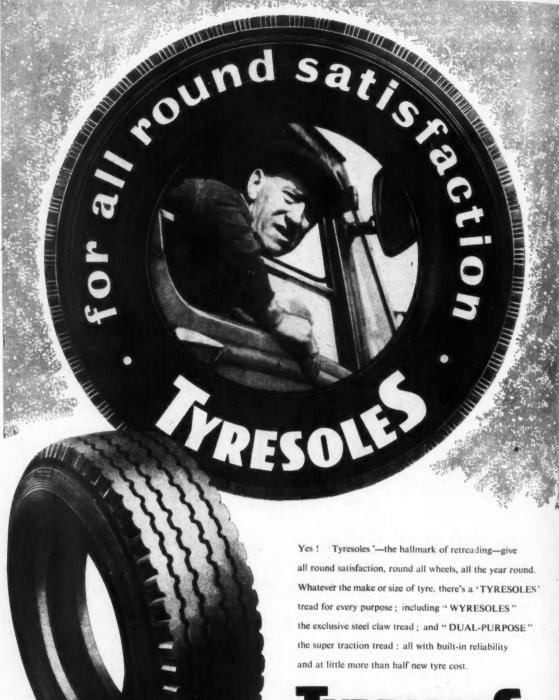
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# TYRESOLE 5

#### RENEW SMOOTH TYRES

Over 50 Works and Depots throughout the country give rapid on-the-spot service

TYRESOLES LTD., PALACE OF ENGINEERING, WEMBLEY, MIDDX. Tel.: WEMbley 1222 (10 lines)

#### "Most Blatant Breach of Normal User"

IN refusing an application to vary the normal user of an A licence for a vehicle which had been acquired in January, 1959, Mr. Alex Robertson, Scottish Deputy Licensing Authority, said at Dundee last week that he had never before encountered such a blatant case of breach of normal user.

The application, by Messrs, Chevne and Thomson,

An A.E.C. 10-cu.-yd. Dumptruk similar to this example will be exhibited at the Geneva Motor Show

an Edbro-B. and E. 15 DN
Mk. IV hoist with power
return. The other A.E.C.
exhibit is to be a Mandator

short-wheelbase tractor, with semi-trailer.

from March 10-20.

Kintore, Aberdeenshire. sought to add " draff to south Scotland and empty fruit containers to London" to the existing user of "livestock and agricultural goods in Aberdeenshire." It was stated that the applicants hought a one-vehicle engaged Musiness.

purely on local work, with an annual turnover of little more than £1,000 from

Messrs. Rose and Pope. In August, 1959, the driver's records showed that the vehicle was becoming engaged in longer-distance work. The owners were told that they should make application for a new licence, but did not so until November, said Mr. Robertson. A later examination showed that the vehicle had been engaged within the normal user for only 12 days during November and December, he added.

Mr. F. P. Cheyne, a partner, said that insufficient traffic could be found locally and work had been undertaken to carry draff to southern Scotland for Messrs. Gavin and Gill, agricultural merchants.

After asking for the Authority to give his reasons for refusal in writing, Mr. W. D. Connochie, for the applicants, declared that if an applicant seeking a change of user had to wait for approval before undertaking new work, Licensing Authorities would be faced with a flood of applications beyond their control.

#### HEALTH CONVENOR ATTACKS **AUTHORITY**

CHARGE of ignorance of the meat A CHARGE of ignorance of the Alex trade was levied against Mr. Alex Robertson, Scottish Deputy Licensing Authority, by Mr. Charles Buick, convenor of Dundee Health Committee, last week.

Referring to Mr. Robertson's remark that the withdrawal of meat-delivery services by closed vans in the city was a retrograde step (The Commercial Motor. January 29), Mr. Buick said that when a local authority was involved in a case in the traffic court it should be given an opportunity to state its position.

The minimum standard at present operating in Dundee was better than the maximum of any other city in Scotland. he claimed.

At a meeting of the health committee Mr. W. K. Fitzgerald, a member of the Master Butchers' Association, explained that the former container service for meat delivery had been withdrawn at short notice. Satisfactory arrangements had been made for delivery by open lorries, he added.



#### B.T.C. Proposals for Scotland Opposed

PLANS by the Scottish Area Board of the British Transport Commission to re-organize road and rail transport services north of Inverness (The Commercial Motor, February 12) have met strong opposition from local and county councils

A meeting of civic and county representatives from a wide area round Inverness met, in private, on February 11 and through their spokesman, Mr. Robert Wotherspoon, Provost of Inverness, said they will approach the Prime Minister in an attempt to gain a public inquiry into the Commission's proposals.

In the meantime, they have asked the Commission to delay the start of its co-ordination scheme, which was to have come into effect at the end of next month, until their request for a public inquiry had been considered.

The Commission's proposals include the closing of 30 railway stations and two branch lines. The railways would then concentrate on long-distance services and, in collaboration with the bus undertakings, arrange alternative services for short distance and intermediate travel.

#### TRAILERS BY RUBERY OWEN

TRAILER equipment department A has been set up within the motor division of Rubery Owen and Co., Ltd. From March 31 it will be under the joint management of Mr. J. T. Pierce and Mr F Pike

Bull Stake Motors (Darlaston), Ltd., Darlaston, Staffs, have been acquired by Charles Clark and Son, Ltd., Chapel Ash, Wolverhampton, a member of the Owen organization.

#### DESERT BUS WANTED

TENDERS have been invited by the Tanganyika National Parks for the supply of a 20-seat desert bus, with air conditioning, to institute a regular service across the Serengeti National Park.

The surface of the road on the 100-mile route varies from deep mud to volcanic dust, and four-six-wheel drive is essential. The road climbs 2,000 ft.

#### Gas Turbine for Mining Truck

REGENERATIVE gas - turbine A REGENERATIVE gas an annual engine is to be installed in a vehicle to be used for hauling ore from an open pit mine of the International Nickel Co. of Canada in the Sudbury division of Ontario.

The engine, a GMT-305 Whirlfire, manufactured by the Allison Division of General Motors Corporation, produces 225 h.p. It is a multi-fuel engine with more than double the power of a piston engine of comparable capacity.

. The mine should provide an ideal testing ground for the turbine-engined truck, which will have to travel almost two miles over winding roads, at a gradient of approximately 1-in-12, with a load of 32 tons. The district is also subject to frequent spells of sub-zero

#### TASMANIA WANTS INDUSTRY

TASMANIA wants British motor manufacturers to invest in the island's expanding economy, and is sending a four-man industrial mission to this country on April 4. The mission will try to persuade a number of industries to join in the "new industrial revolution" which is turning Tasmania into an important manufacturing state, but the motor industry will be one of the mission's special targets.

One of the most mountainous islands in the world, Tasmania boasts the cheapest hydro-electric power in the southern hemisphere.

#### FLUORESCENT HEADLAMPS

NEW high-intensity fluorescent lamps fitted lengthwise across the front of vehicles would reduce glare and give greater uniformity of light distribution than present lamps. This is claimed by the American General Telephone and Electronics Corporation, who hope that the development will be adopted by the motor industry for vehicle headlights.

A controllable beam emitted through a 30° window in a fluorescent tube would replace or supplement conventional lights.

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# Council Members Oppose Ribble

STRONG opposition by members of Withnell Urban District Council was voiced at Manchester last week when Ribble Motor Services, Ltd., applied to vary their services between Blackburn and Wigan, via Chorley. The variations had been operated on dispensation since the railway line had been closed on January 3.

Previously the direct service had operated at half-hourly intervals, and a semi-circular route at irregular intervals. Ribble proposed to make the semi-circular route a half-hourly service and reduce the headways on the other route.

This would result in the loss of 13 journeys, said Mr. F. D. Walker, for the company. It would still provide adequate facilities and it was the most economical method of operation for the company. There would be no change in services before 9 a m.

Cllr. G. Taylor said that it would be a retrograde step to reduce the halfhourly service which had been operating for 25 years. It would be inconvenient for people visting a nearby hospital and old people's home and also for shiftworkers.

Observing that Ribble had submitted a number of kindred applications, Mr. F. Williamson, chairman, North Western Traffic Commissioners, said that although details had not yet been revealed, if granted the additional proposals would improve conditions in the area. He granted the applications in hand for a trial period of three months.

At the end of that time Ribble would have to submit a report of the new workings to the Commissioners and the council. If the council were not satisfied, traffic examiners would be sent to review the conditions

"One Great Jungle of Anomalies"

"THE whole question of concessionary travel on local-authority transport is now one great jungle of anomalies and administrative difficulties, and those anomalies increase almost every week."

Mr. E. Short (Lab., Newcastle-upon-Tyne Central) said this in the House of Commons last week, when he secured permission to introduce a Bill to amend the Public Service Vehicles (Travel Concessions) Act, 1955.

Municipal undertakings, he pointed out, could not grant concession fares on routes introduced since 1954, so that old, blind or disabled persons and children could enjoy low fares on some routes but not others.

Some old people were now housed outside the boroughs in which they formerly lived, and could not travel at concession fares.

The Act solved the immediate problem that arose from the High Court decision in the action brought by Mr. G. Prescott, of Birmingham, in 1954, but had created the many anomalies which he had predicted, said Mr. Short. (The High Court ruled that concession fares were illegal.)

He recalled how he had initiated a Private Member's Bill to give power to local authorities to grant concession fares, but how the Government had amended it so that the resultant Act merely legalized those concessions in force in 1954.

The Government amendment had not given local authorities power to introduce concessions as they saw fit, as Mr. Short had intended his Bill should have done, and as he now wished to promote in his new measure.

### Overseas Tours from South Wales

A RESERVED decision of the South Wales Traffic Commissioners has brought another operator into the field of Continental coach tours.

The application was made by Lewis John Bennett, Colin Bennett, Robert Hourmont and Hannah Patricia Hourmont, trading as Continental Tours Agency, for a road service licence to provide a group of six Continental coach tours starting from Colum Road, Cardiff.

British Railways opposed the application. So did South Wales Transport Co., Ltd., who operate Continental tours by coach from Swansea—picking up at Neath, Port Talbot, Bridgend, Cardiff, St. Mellons, Newport and Chepstow in the South Wales Traffic Area.

In their decision the Commissioners state: "The applicants' case was that they should be authorized to provide facilities for people who wished to visit the Continent and travel throughout by coach but could not afford to take advantage of the existing tours. It was not suggested that the South Wales Transport

Company's charges were too high, but the applicants claimed that by providing cheaper, but nevertheless good, hotel accommodation on the Continent, attractive tours could be offered at charges substantially lower than those of the company.

"For the South Wales Transport Company it was stated that their vehicles engaged on Continental tours could take more passengers and if the applicants had proposed to provide services similar to those of the company at similar charges their application would have failed."

#### LIVERPOOL SHOULD BALANCE

As a result of economies and the reduction of taxation on buses, Liverpool Transport Department expect a balance on this year's workings instead of having to face a deficit of about £182,500. The estimated deficit has been reduced to about £57,000, but this will be covered by the 1958-59 surplus of £89,000.

A deficiency of about £138,000 is estimated for 1960-61.

Vain Valuation Bid by E.Y.M.S.

AN appeal by East Yorkshire Motor Services, Ltd., against a local Valuation Court decision that their central workshop at Hull Road, Anlaby Common, should be assessed as non-industrial at a gross value of £1,750 was dismissed by the Lands Tribunal in a reserved decision announced in London

Sir William Fitzgerald, the tribunal president, said two kinds of work were done on the premises—the manufacture and reconditioning of parts and units of vehicles, and the repair and overhaul of them. He said that looking at the hereditament as a whole and what went on in it, it could scarcely be doubted that its main purpose was the maintenance of a fleet of 242 buses. He went on, "The conclusion I have drawn from the evidence is that some reconstruction does take place, but it is entirely subsidiary to the main purposes of the hereditament which are those of repairing and reconditioning."

For these reasons the appeal would be dismissed and the appellants would pay the respondent valuation officer's cost—if not agreed, to be taxed by the Registrar of the Tribunal on the High Court scale.

#### MINISTER REJECTS APPEAL BY PATON BROS.

THOUGH they agree that restrictive conditions attached to public service vehicles generally are irritating and should be avoided, the Minister of Transport has dismissed an appeal by Paton Bros., Ltd., against the decision of the Scottish Traffic Commissioners refusing to vary the conditions attached to a service between Paisley and Glasgow.

Paton Bros, sought the removal of the condition at an inquiry in Glasgow on November 9, last. The condition read:
"A passenger shall not on the same journey both be taken up and set down on that part of the route lying between Paisley (St. James Street) and Broadloan at its junction with Sandy Road, both points included."

The Minister notes that his decision will result in some passengers still having to walk the distance separating the St. James Street area from the terminus of the Renfrew/Paisley services. They share the Commissioners' hope that further consultations between the operators concerned will yield a solution, in the general public interest.

#### L.T.E. MEN IN CEYLON

IN answer to a request from the Ceylon Transport Board, a four-man team from the London Transport Executive has travelled to Colombo to advise on the reorganization of garages, workshops, stores sections and repair units.

The team is led by Mr. R. D. Gillanders, divisional engineer, who, with Mr. E. W. Claydon, divisional supplies assistant, will stay for six months. Mr. W. C. Cooper and Mr. G. E. D. Heffer, of the department of the chief mechanical engineer (road services), are expected to be in Ceylon for a year.

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# Joint Colliery Operator Accused: N.C.B. Thoroughly Dissatisfied

ALLEGATIONS by an operator of colliery services against his coservice, were made before the Northern Traffic Commissioners at Newcastle upon Tyne last week when Mr. Norman O'Hara, of Spennymoor, County Durham, applied to have a condition removed from his workmen's express service licences.

For the applicant, Mr. J. L. R. Croft said his client and Mr. Albert Cadman, who objected to the application, were once in partnership, operating various miners' services in County Durham. In 1948 there was a dissolution of the partnership and each was granted a licence enabling him to provide separate services. A condition was imposed on the licence that each would be "jointly and severally " responsible for the maintenance of the services.

Mr. Croft said that suddenly, in May, 1959, a Mr. O'Neill began to run the buses which Cadman had hitherto operated, and his client had been informed that O'Neill had taken over Cadman's business.

His client waited for an application for the grant of road services licences to O'Neill to be made so that he might give his views on the continuation of the condition, but no such application was lodged

In June, 1959, the National Coal Board received a letter asking them to make cheques payable to J. O'Neill instead of A. Cadman, and enclosing a bill, the heading of which had been altered in ink from Cadman to O'Neill. The Coal Board at first complied with the request, but later learned that O'Neill did not hold appropriate licences and insisted that cheques should be made payable, as before, to Cadman.

#### Reported to Commissioners

No application was made by O'Neill to operate the services though the coaches bore his name in place of Cadman's. Mr. O'Hara reported this to the Traffic Commissioners who subsequently were assured by O'Neill that the necessary application would be made.

The Coal Board, contended Mr. Croft, were "thoroughly dissatisfied" with the position, because, on two occasions, there had been breakdowns in the service which should have been provided by Cadman, and O'Hara had been called out, in the small hours of the morning, to provide services for miners.

Because the situation was still unchanged, Mr. O'Hara had made this application to bring the matter before the Commissioners.

Mr. Croft said Cadman had left the district altogether and he considered it unreasonable to make the applicant responsible for any breakdown in services not provided by him.

Cross-examined by Mr. T. H. Campbell Wardlaw, for Cadman, Mr. O'Hara said

that he was not seeking to take over the whole of the services or to ask for Cadman's licence to be revoked.

Mr. J. A. T. Hanlon, the chairman, pointed out that there was nothing on the licence to show which operator was running any particular journey. "Who are we to prosecute, if nobody turns up?" he asked. Mr. Croft pointed out that the same situation obtained all over the Area. Mr. Hanlon said they had the right to prosecute them both—both were jointly and severally liable. Mr. Croft said that the condition was a "most unusual" one to find upon a licence.

Mr. Hanlon said that since the matter had been brought up and the possible difficulties examined, the whole question

should be reviewed.

Mr. Wardlaw then stated that his client would not resist the application to remove the condition, but he could not see that it was in the interests of the N.C.B. to have the condition deleted.

#### Verbal Arrangement

Mr. Albert Cadman said he had decided to move to Ilkley and had made a verbal arrangement with Mr. O'Neill, whom he had once employed, to manage the business and eventually to purchase it. He was in the course of forming a company which would make application for the licences.

Mr. Cadman said he had received no money and seen no accounts though, he contended, he was still the owner of the vehicles and the business.

Mr. A. G. Mein, legal adviser to the Durham Division of the Coal Board, said that, in view of the difficulties they had experienced, and the evidence during the hearing, the Board would almost certainly now terminate their contract with Mr. Cadman, and would like to be in a position to offer the whole of the service to Mr. O'Hara.

Mr. Wardlaw challenged the Board to produce one letter of complaint. In view of what Mr. Mein had said, the matter would be taken up "at Board level," and he asked the Commissioners to adjourn the application so that his client could consider what action he should take.

Mr. J. O'Neill was called to explain his position, and the application was adjourned.

#### **CUTS IF TAX CONTINUES?**

FURTHER drastic cuts in rural bus routes and increases in fares might be the result of the continuation of the fuel tax, said Mr. T. G. Davies, general manager of the Western Welsh Omnibus Co., Ltd., last week.

Some rural services were losing up to Is. a mile, he added, and the company were paying about £250,000 a year, or one-tenth of their total expenditure, on fuel duty.

If the tax were abolished or reduced, Mr. Davies considered that fares would at least be stabilized.

#### Out of a Heatwave Into the Court

HEATWAVE conditions last July led Mr. Oliver Cromwell Bishop, a Coalville, Leicestershire, bus proprietor, to Coalville Magistrates Court this week for failing to comply with the conditions of a road service licence on three Saturdays in August.

Mr. Bishop pleaded guilty to three charges and was fined £5 for each. Mr. J. C. Bray, prosecuting, told the court that Bishop's licence allowed him to run four express coaches from Coalville to Great Yarmouth on August 1, 8 and 15.

On August 1 a check at Thurnby, Leicestershire, revealed that five coaches were in use and a like number was on the road when a check was made at Bushby the following week. On August 15, an inspection at Great Yarmouth showed that six coaches were being used. Some of these had been hired from other firms.

For Mr. Bishop, Mr. John Rodgers said he had been ill at the start of 1959 and his daughter had helped him with the office work until she had a baby. His son-in-law then took over but he had not the necessary experience.

The hot July weather caused numerous late bookings and it did not occur to the son-in-law that there was a limit to the number of coaches which could be

#### PAIGNTON TOUR WOULD HIT **EXPRESS SERVICE**

WHEN Barton Transport, Nottingham, successfully applied to the East Midland Traffic Commissioners last week to operate a tour to Paignton, Associated Motorways, Ltd., claimed that it would affect their Scunthorpe-Paignton express service.

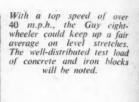
This passed through Nottingham. Barton's customers had demanded a tour involving staying at only one hotel rather than putting up at a number. The proposed tour would cost £21 and last for six days. The applicants offered to delete a seven-day Devon tour if the application were granted. They were supported by 11 witnesses.

The grant allowed operation from the first Sunday in May to the last in September. Picking-up at Loughborough was barred, but a further application if sufficient need became apparent was invited.

#### "WIPE OUT U.T.A. DEBTS"

THE "colossal" debts which the Ulster Transport Authority had no hope of redeeming would have to be written off, said Mr. W. Fitzsimmons in the Ulster Parliament last week. He thought that there was room for great economies within the undertaking.

The Authority wish to go before the Transport Tribunal to seek to avoid a big disturbance of their fares structure. An adverse ruling by the High Court last July, concerning bus fares between Rathcoole and Belfast, affects the whole charges system.



By John F. Moon, A.M.I.R.T.E.



# LIGHT and BRIGHT

# —the Guy Warrior

BECAUSE of its remarkably low unladen weight, the Guy Warrior Light 8 eight-wheeler can carry genuine payload of 17½ tons, which could be increased by at least ¼ ton by the use of a light-alloy body. It has the greatest payload capacity of any rigid vehicle manufactured in this country to operate at British maximum legal ratings.

That fact alone makes it attractive to British operators, but arising from the low weight and consequent use of a smaller engine than is usually employed in eight-wheelers, is an additional advantage—exceptional fuel economy. A consumption rate of 9.25 m.p.g. was obtained on test over a typical stretch of trunk road, whilst even when driving "flat out" over a route consisting mainly of country roads, 8.63 m.p.g. was returned.

Simple, Lightweight Construction of Guy Chassis Cuts Weight to  $6\frac{3}{4}$  Tons and the Price to £3,304: Small A.E.C. Engine Gives Good Fuel Economy

Much of the credit for this fuel economy undoubtedly lies with the Eaton two-speed axle used in the single-drive rear bogie, which helps to compensate for the low engine power and gives a higher effective top-gear ratio than would be possible otherwise. The two-speed axle is essential for hill climbing also, of course, and materially assists in giving a generally satisfactory road performance.

Low initial price is yet another asset

of the Warrior Light 8. The list price of the chassis, with standard Guy part-plastics cab, is only £3,304, which is a clear £100 lower than the cost of any other eight-wheeler on the British market. The inclusion of eight-wheel brakes in such a low-priced vehicle is even more remarkable.

Although nobody gets anything for nothing, the vehicle is a bargain in most respects. The driver has to work fairly hard to keep up a reasonable average speed—although the synchromesh gearbox is a great help in this respect—and the chassis has a limited hill-climbing performance. Engine and clutch life may be shorter than with heavier models, but the use of an 11½-in.-deep frame should dispel any doubt about robustness.

The Warrior Light 8 first saw the light of day at the 1958 Commercial

Motor Show, but the original version was merely a conversion of a long-wheelbase Warrior four-wheeler, and had a 9-in-deep frame. Last June details were revealed of a redesigned model which was to be built completely by Guy and it was this model which was tested. The June announcement disclosed that

Because of somewhat heavy steering characteristics, the Warrior Light 8 was awkward to take round sharp corners and small roundabouts, as at this one at Shifnal. Nevertheless, the eight wheeler revealed an ability to cover a difficult route at a high average speed.



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Bottom gear, low axle ratio, was needed when the 1-in-8 section of Hermitage Hill was reached, and this ratio was held for 1½ minutes out of a total climbing time of 8 minutes 10 seconds. Only slight exhaust smoking was observed.

only one ratio which will give a road speed of more than 30 m.p.h.

Guy pull-up hand brake is used, as on the heavy-duty Invincible eight-wheelers, and can be supplied with an air servo to take up the initial slackness in the brake linkage. Without the servo the lever acts as a multi-pull design, but its action was not found to be completely reliable on test.

Michelin "X" 9.00-20-in. tyres are standard and the manufacturers state that their guarantee will be repudiated

if larger tyres than this are fitted. This is because the chassis has been designed solely for solo operation at 24 tons

Girling two-leading-shoe brakes are fitted to all wheels and are airhydraulically operated through a splitcircuit layout. The newly developed

over eight-

Eight-wheeler

The test vehicle had a 60-gallon fuel tank in place of the standard 40-gallon unit, and alongside it can be seen the test tank used during the fuel-consumption runs. A wide hub step-ring aids access to the cab.

a six-wheeled chassis rated for a gross weight of 20 tons was also to be produced.

The A.E.C. AVU470 oil engine develops 112 b.h.p. when governed to 2,000 r.p.m., or 125 b.h.p. at 2,200 r.p.m., and the peak torque output of 325 lb.-ft, is produced at 1,100 r.p.m. This

torque output is almost 100 lb.-ft. lower than that of the smallest engines normally used in eight-wheelers, and I must confess to having been sceptical about the suitability of this unit for a 24-ton-gross chassis.

As the acceleration figures show,

however, the Guy is surprisingly lively and on the flat can hold its own against most other heavy vehicles. The A.E.C. five-speed synchromesh gearbox, combined with the doubled-up ratios afforded by the Eaton axle, is a great help in this respect, although there is gross, with a rear-bogie loading limit of 16 tons. This was the weight at which I tested it, a Guy driver and myself bringing the weight to 4 cwt. over this figure.

The test vehicle had a standard Guy 24-ft. timber platform body, and the





(Left) A combined filter and level plug is used in the Eaton driving axle, and this simplifies checking the level and topping up. (Right) A winch eases spare-wheel removal and stowage. The wheel is clamped in place by two nuts, and there are two additional safety catches.



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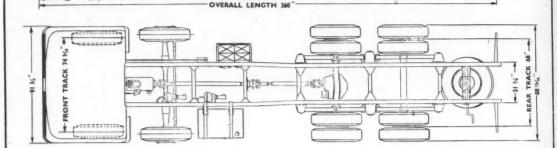
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ROAD TEST No. 683/MI42/-GUY WARRIOR LIGHT 8 24-TON-GROSS EIGHT-WHEELER



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TYRES: 9.00-20

WHEELBASE 213

MODEL: Guy Warrior Light 8 17-ft. 9-in.-wheel-base eight-wheeled goods chassis, with A.E.C. oil engine, Guy plastics cab and Guy 24-ft. timber platform body.

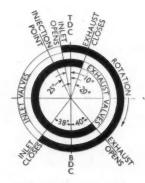
Tons Unladen (kerb weight) 17 Payload Driver, observer, etc. 24 0 4 DISTRIBUTION 16 Front bogie Rear bogie 0

ENGINE: A.E.C. AVU470 six-cylindered direct-injection oil engine; bore 112 mm. (4.41 in.); stroke 130 mm. (5.12 in.); piston-swept volume 7.685 licres (469 cu. in.); maximum net output 112 b.h.p. at 2,000 r.p.m.; R.A.C. rating 46.67 h.p.; maximum net corque 325 lb.-ft. at 1,100 r.p.m.

TRANSMISSION: Through 14-in-diameter single-dry-plate clutch to A.E.C. five-speed synchro-mesh gear-box, thence by two-piece propeller shaft to the Eaton 18500/800 two-speed axle of the single-drive rear bogie.

GEAR RATIOS: 6.25, 4.4, 2.65, 1.56 and 1 to 1 forward; reverse 6.01 to 1; rear-axle ratios 8.87 and 6.5 to 1.

BRAKES: Clayton Dewandre-Girling split-circuit air-hydraulic system, with Girling wedge-oper-ated two-leading-shoe units at all wheels. Multi-pull hand brake linked mechanically to rear-bogie wheels only. Diameter of drums, front,



FIRING ORDER 1-5-3-6-2-4 COMPRESSION RATIO 16:1 VALVE CLEARANCE

15.25 in., rear, 15.5 in.; width of linings, from axles, 4.25 in., driving axle, 6 in., trailing axle, 7 in.; total frictional area, 1,255 sq. in., that is. 51.8 sq. in. per ton gross weight as tested.

RAME: Pressed-steel channel section, with 11½ in, by 3 in, by ½ in, side members and six pressed-steel cross-members bolted in position.

STEERING: Marles cam and double roller

SUSPENSION: Semi-elliptic springs, with four

ELECTRICAL: 24v. compensated-voltage-control tem with 89-amp.-hr. batterie

FUEL CONSUMPTION: (a) laden, trunk route, 9.25 m.p.g. at 29.75 m.p.h. average speed; (b) laden, hilly route, 8.63 m.p.g. at 25.6 m.p.h. average speed; (c) unladen, 15.1 m.p.g. at 30.8 m.p.h. average speed, that is 223.9 gross ton-m.p.g. as tested (a), and 208.9 (b), giving time-load-mileage factors of 6,661 and 5,348 respectives. respectively.

TANK CAPACITY: 40 gal., laden range 345-370 niles according to service.

ACCELERATION: Through gears, 0-20 m.p.h., 27.7 sec.; 0-30 m.p.h., 66 sec.; direct drive (low axle ratio), 10-20 m.p.h., 25.5 sec.; 10-29.5 m.p.h., 53.5 sec.

BRAKING: From 20 m.p.h., 25.25 ft. (17.1 ft. per sec. per sec.); from 30 m.p.h., 59.5 ft. (16.5 ft. per sec. per sec.).

WEIGHT RATIO: 0.232 b.h.p. per cwt. gross weight as tested.

FORWARD VISIBILITY: To within 9ft, of front bumper at ground level on centre line.

TURNING CIRCLES: 67 ft. 9 in. left lock, 74 ft. right lock; swept circles, 70 ft. 9 in. left lock, 77 ft. right lock.

MAKERS: Guy Motors, Ltd., Wolverhampton,

kerb weight of the complete vehicle was 6 tons 151 cwt. About 1 ton would have been saved had a lightalloy platform body been installed, and it should be possible to reduce the weight of a complete eight-wheeler in licensing condition to under 6 tons.

A laden fuel-consumption test was made first over a 17-mile out-andreturn route between Fordhouses and Hatherton. About half this route consists of undulating dual carriageway. and the rest is fairly level but narrow "trunk" road. The complete distance was covered at an average speed of 29.75 m.p.h., although the top speed never rose above 32 m.p.h., and the

fuel-test tank indicated a consumption rate of 9.25 m.p.g.

These figures give the highly commendable time-load-mileage factor of 6,661, which is high for a vehicle cruising at little more than 30 m.p.h.

The fuel test was made in two parts. While at Hatherton I made braking and acceleration tests on a three-lane stretch of the A5 road. The brake tests showed good retardation characteristics, although a certain amount of effect was being lost because of the locking of the driving wheels, a common characteristic with four-spring bogie suspension systems.

There seemed to be a slight delay in

the system, and this was confirmed by a difference of about 11 per cent. between the maximum deceleration readings given by the Tapley meter and the average retardation indicated by the marker gun. As is usual with a multi-pull hand brake, no retardation figures were taken.

In view of the low engine torque output, I was pleasantly surprised by the acceleration figures obtained. The standing-start tests were made with the low ratio of the axle engaged up to 29.5 m.p.h., and had it not been necessary to engage high ratio to top 30 m.p.h., the time of 66 seconds would have been cut to less than a minute.

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Similarly, because of the axle gearing, direct-drive times could be taken only as far as 29.5 m.p.h., but the time up to this speed from 10 m.p.h, was most satisfactory.

The spread of ratios afforded by the A.E.C.-Eaton gearbox-axle combination is useful. Low axle ratio gives speeds of 5, 10, 19 and 29.5 m.p.h. in second, third, fourth and top gears respectively, whilst the high ratio yields speeds of 8, 15, 26 and 41 m.p.h. in the same gears. Transmission smoothness in direct drive, low axle ratio, was commendable (a Metalastik transmission damper is fitted at the rear universal joint of the rear propeller shaft).

#### Hilly Test Route

Following the fuel-consumption test under simulated trunk-haulage conditions, I elected to make a further test along less favourable roads between Gailey, on A5, and Bridgnorth, the route being via Shifnal and along B4379 into Bridgnorth. This run was 23 miles long and at times I had to change into bottom gear to ascend some of the hills. On the open road, however, I was able to keep the Warrior cruising at up to 40 m.p.h.

An average speed of 25.6 m.p.h. was maintained over the course, whilst the consumption rate—8.63 m.p.g.—was by no means as heavy as I had feared it would be. Again, a most satisfactory time-load-mileage factor results—5.348.

Hermitage Hill, Bridgnorth, was used for the hill-performance tests, which were carried out in an ambient temperature of 51° F. This hill is ½ mile long and has an average gradient of 1 in 12 and there are sections of up to 1 in 8. The total climbing time was 8 minutes 10 seconds, during which I brought the vehicle to a standstill twice because I missed changes with the two-speed axle.

I had to get down into bottom-low to breast the steepest section, and at this point the road speed fell to 2.5 m.p.h., which would be equivalent to the engine speed at which maximum torque was being developed. Only slight exhaust smoking was observed during the climb and the engine coolant temperature rose from its normal 182° F. by only 4° F.

To check for fade resistance I coasted the eight-wheeler down the hill in neutral and used the foot brake to keep the speed down to about 20 m.p.h. This severe test reduced the maximum braking efficiency by a mere II per cent., offering yet further proof of the anti-fade effectiveness of eight-wheel brakes on an eight-wheeler.

I then returned to the 1 in 8 section and there I stopped. A fair amount

of effort was required on the handbrake lever to restrain the vehicle from rolling back, but, once stationary, I just managed to make a bottom-low full-throttle restart. The technique was to apply full throttle, slip the clutch violently while releasing the hand brake, and then to let the clutch in sharply. A slight amount of wheelspin resulted, but the chassis finally moved away.

I would reckon 1 in 8 is about the steepest slope on which the chassis could safely be restarted, although it should be able to climb short sections steeper than this where it is possible to take a run at the gradient.

The unladen fuel-consumption test was made at a gross weight of 6 tons 19½ cwt, and the Fordhouses-Hatherton course was used again. The same maximum speed was observed and the resulting overall average speed was little higher than that recorded with the fully laden vehicle. The consumption rate of 15.1 m.p.g. is yet another advantage to be derived from the lightness of the vehicle and indicates that an overall consumption rate of about 12 m.p.g. should be obtained in service when running laden in one direction only.

There is no disguising the fact that the Warrior Light 8 can become a little tiring to drive on hilly, twisting roads. A fair amount of gear changing is almost continually necessary and the steering is heavy. I put this down to the somewhat simple construction of the 4-ton axles used at the front bogie.

#### **Heavy Steering**

Steering is particularly heavy at low speeds, and when reversing into a side turning on full lock it is almost impossible to straighten up the wheels until the vehicle moves forward again.

A conventional brake pedal gives good "feel," whether laden or unladen, and the gear-changing action is reasonable in view of the fact that a remote linkage is not employed. Because of the plastics engine cowl, the engine noise penetrating into the cab is passably low at normal speeds.

Details of the cab and its fittings which I did not approve were the diminutive rear-view mirrors (2\frac{1}{2}\) in. by 6 in.), which are badly placed, and the thoughtless location of the horn push. This is on the off-side door pillar, where it can be inadvertently operated by the driver's right knee. If it were about a foot higher on the same pillar it would be more convenient.

The absence of a main-beam warning light is regrettable, particularly on a vehicle with powerful paired headlights, and I would still like to see additional grab handles to assist access

into the cab and an improved design of door-lock mechanism. These are both points about which I wrote with regard to the Invincible (*The Commer*cial Motor, January 1).

In view of the low price, however, it is perhaps unfair to complain about details, as generally the cab is well thought out and comfortable.

With the exception of access to the fuel filter, maintenance on the Warrior Light 8 reaches a high standard, and operators should find no difficulty in keeping the vehicle up to scratch. The tasks that I carried out were mainly of a fundamental nature, but the ease with which I was able to complete them made a refreshing change.

#### Water Level Checked

The first job was to check the water level, and the radiator filler cap is easily reached by lowering the "Guy" name plate in the cab front panelling. This check took 15 seconds.

To reach the engine dipstick, the upper cowl section has to be removed completely (it is secured by four spring clips) and this level check occupied 1 minute 20 seconds.

There is a large combined filler and level plug in the left side of the gearbox and I was able to verify the gearbox oil level also in 1 minute 20 seconds. A similar arrangement holds good for the Eaton axle, but because the plug is easier to reach, this level check took only 35 seconds.

Brake adjustment also proved to be easy. Each Girling unit has a single square-headed adjuster, and by jacking up each axle at the centre, so as to lift both wheels off the ground simultaneously, the brakes on each rear axle were adjusted in four minutes and those on each front axle in 2 minutes 10 seconds.

As a final timed check, I dismounted and re-stowed the spare wheel. The wheel has a winch mounting, and removal entailed detaching two self-locking nuts (which necessitated lying beneath the wheel), releasing two safety catches, and lowering the wheel to the ground. The procedure is reversed for re-stowing. These two tasks took 4 minutes 10 seconds and 3 minutes 10 seconds respectively.

The standard of general accessibility is commendable and shows that with a little care a commercial vehicle can be easy to work on. For the benefit of those people who might think that I am always able to work under ideal conditions, I might add that immediately before I carried out these tasks, the Guy had been standing outside in a snow storm, so that every time I got underneath the vehicle I was drenched by melting snow.

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#### Guy Invincible Tippers For Poland

AN order for 11 six-wheeled tippers has been received from Poland by Guy Motors, Ltd., Wolverhampton, and the first of these vehicles has already been delivered. They are based on Invincible Mark II chassis and are being shipped out complete with Edbro scow-ended bodies.

The chassis have left-hand drive, and are powered by Leyland O.680 11.1-litre oil engines rated to develop

150 b.h.p. at 2,000 r.p.m. ZF constant-mesh six-speed gearboxes with power take-off units have been specified.

The double-drive rear bogie used on these chassis incorporates a limited-slip third differential, and the worm axles have a reduction ratio of 8.25 to 1. The axles

carry 11.00-20-in. (16-ply) twin tyres, and single tyres of this size are used on the Kirkstall heavy-duty front axle.

Power-assisted steering is fitted and Armstrong telescopic dampers are incorporated in the front springing. Rear suspension consists of four semi-elliptic springs with balance beams. Girling two-leading-shoe brake assemblies are used on each axle: the drum diameter in each case is 15.5 in. These wedge-operated units are actuated through a Clayton Dewandre dual-circuit air-pressure system.

Another order received by Guy from overseas has been for 10 18-ft.-wheelbase passenger chassis for South African

This tipper is one of 11 being supplied by Guy Motors, Ltd., to Poland. The Invincible chassis has a Leyland engine, a Guy partplastics cab is fitted and the body is of Edbro manufacture.



Railways. These vehicles are of the trambus type, in which the Rolls-Royce B81 Mk, 70H petrol engines are mounted well ahead of the front axle, a layout which enables a front entrance to be incorporated.

The ZF six-speed synchromesh gearboxes have air-assisted gear-change mechanism, and the Kirkstall hypoid rear axles have a reduction ratio of 7.16 to 1. The gearbox is mounted separately from the engine and clutch.

Girling brakes are used on both axles, and they are actuated through a Bendix-Westinghouse dual-circuit air-pressure system. Woodhouse-Monroe telescopic dampers are employed at both axles,

and the vehicles are rated for a gross vehicle weight of  $10\frac{1}{2}$  tons, the maximum permissible front axle loading being 5 tons.

In South Africa the chassis will be equipped with 35-ft. by 8-ft. 2\frac{1}{2}-in. semi-luxury passenger bodywork. Six further chassis of this type, but smaller and powered by Rolls-Royce B60 petrol engines, are also to be constructed.

A further South African order is one received from Johannesburg Municipal Tramways for 20 more six-wheeled double-decker passenger chassis, similar to the 10 supplied in the early part of 1958. These new chassis are to have semi-automatic gearboxes.

## Four-wheel Steering for Long Beam Transporter

INDEPENDENT four-wheel steering endows the newly introduced Simmons Mark II/I four-wheel-drive transporter with a turning circle only slightly greater than its overall length of 41 ft. 6 in. Twelve of the new transporters are being built and will be used to carry steel reinforcement bars and concrete beams during the construction of a new atomic power station.

The first vehicle produced has received Ministry of Transport approval and can be used on the road when the steering action of one axle is locked. It has a wheelbase of 25 ft., giving

wheelbase of 25 ft., giving appreciable overhang front and rear. The Ford 4D engine which drives the vehicle is mounted on the front overhang.

It is coupled to a four-speed gearbox, the drive then passing to an F.W.D, transfer box to which are coupled the drive-shafts to the front and rear axles. The F.W.D. unit provides reduction ratios of 2.5 to 1 and

1.5 to 1, the complete transmission giving eight forward speeds and two in reverse.

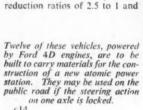
For road work, the driver sits facing the engine, which is then at the front of the vehicle. On site he changes to another seat to sit with his back to the power unit so that he can see the extremities of the vehicle more easily.

Driving controls are not duplicated but are arranged so that they can be operated from both driving positions. Twin steering wheels control the power-steering gear on both axles. This method of steering permits the vehicle to be driven sideways,

allowing it to be placed quickly against ramps in a convenient position for side loading and unloading.

Payload is 10 tons on the 12.00-20-in single tyres fitted and the vehicle has a maximum road speed of about 16 m.ph. Concrete beams up to 40 ft, long can be carried and these rest alongside the cab structure. The present open cab will be replaced eventually by a weatherproof structure.

The transporter is produced by Simmons Engineering, Botley Road, West End, Southampton.





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# Rebuild Cities for Private Motorists—Mr. Brunner

of technological change. Failure to adapt meant decline, and a great and challenging task, the renewal of our cities, confronted us. This was stated by Mr. Christopher Brunner, vice-chairman of the British Road Federation, when he presented a paper, "Cities—Living with the Motor Vehicle," in London yesterday.

The impact of vehicles on urban areas had created one of the most intractable problems of the present time, he said. The improvement of cities could not be brought about by a patchwork of small reforms: the task must involve physical rebuilding of our civilization and shedding the belief that nothing effective could be done.

#### Paradox of Growth

In England and Wales 40 per cent. of the population lived in six giant conurbations, and in Scotland a similar proportion of the population lived around Clydeside. The main criticism of these conurbations was that they sapped vitality from other parts of the country. It seemed paradoxical that the demand for industrial and office sites in urban centres should continue to grow at a time when modern communications reduced the necessity for centralization.

Urban centres attracted people because of the variety of employment to be found in them. Increasing car ownership and people's desire for a house and garden had put great pressure on conurban populations to expand. The five-day week encouraged folk to live at distances from city centres. If people had to travel to and from work six days a week and had only one day at home, they would think twice about living far from their work.

Attempts to encourage industry and people to move away from the conurbations had not succeeded. Urban areas were continuing to grow in population and there were no signs of a reversal of this trend. There could never be a general return to living in small communities. A great part of the population had 'acquired a taste for urban living, and there was no alternative to making towns and cities better places in which to live and work.

#### Car for Every Adult

Mr. Brunner stated that no one had been able to envisage for Britain a mode of life which did not remain predominantly urban, and towns must therefore be adapted to satisfy the basic needs of living. The use of cars was the main feature that would shape the future, and there was every indication that eventually there would be a car for every adult.

The challenge of the motor vehicle was sharpest in city centres built in an

earlier age. Although greatly congested by day, they continued to prosper. But there were indications that they were declining in importance. Many urban centres totally failed to serve as a fulcrum of balanced community life. After 6 p.m. during the week and at week-ends they were almost entirely devoid of activity.

The compression of the greater part of public travel into two peak periods five days a week had reduced the total amount of public transport. This had placed a heavy burden on the undertakings which had to provide services in off-peak hours, during which they had to carry large idle resources.

There were two possible courses of future action, said Mr. Brunner. One was to forbid the use of vehicles in the hope that this would make it unnecessary to change the present environment, but no country in the world had taken this line. The other course, and really the only practical one, was to accept the motor vehicle and modify the environment.

environment.

"It may be doubted," he said,
"whether many civic or even national
authorities fully realize the dilemma in
which they are placed." There were
great attractions in making it impossible,

Failure to Accommodate People's Cars Would Cause Cities—and Their Public Transport Systems—to Decline in Importance

difficult, unpleasant or expensive for people to use their cars in a city. Although action on these lines had sometimes to be undertaken as a short-term palliative, it was as well to consider the long-term effects. There was the risk that a palliative might become permanent policy.

The prosperity of a city depended upon its being able to fulfil its functions sufficiently well for the surrounding population to give it their custom. The shops of one city were in competition with those of any other within driving distance. It was in a city's interests, in fact its absolute need, to attract customers, not chase them away. If the policy were to deter customers, they would disappear, but if the city were to live it should attract customers.

The only way that this could be done was to make it easy and pleasant for them to come into the city and stay there for a while. All potential buyers should be able to get into the "spending area" as easily as possible, leave their cars conveniently and cheaply, and depart with

the minimum of trouble, loss of time or friction with the authorities.

Public transport could and must compete with cars in bringing customers into and out of a town, but the distribution of population over wide areas meant that an increasing number of people would wish to make such journeys in their own cars. Moreover, a city should make it easy for those of its workers who lived outside its area to travel either by public or private transport, and if they used cars to dispose of them while they were at work. Car owners were not going to accept trouble and expense to maintain the prosperity of any city. They would rather switch their pattern of employment and spending to conform with the way of life they preferred.

#### Motorists Cannot be Harassed

Mr. Brunner said that there was far too general an assumption that it was possible to keep the motorist out of a city or "chivvy" him when he was in it. The consequence must be the diminution of a city's importance and, in the long run, possibly even its extinction. This would neither be to the advantage of the city nor its public-transport system, which would find that it had fewer and not more passengers.

Operators of public transport could not be expected to show great enthusiasm for measures designed to facilitate private transport, but when the stage at which everybody owned cars was approached, it was inconceivable that any government could refuse to make the changes that were needed in the physical environment

Urban sprawls might suit large countries but not Britain, where there should be a combination of higher density building and the establishment of more new towns. Mr. Brunner said that the ideas of Le Corbusier appealed to him. The architect had suggested the "vertical garden city," with pedestrian and motor traffic separated, and superimposed dwellings rising above a park containing schools, hospitals and clubs.

#### **Multi-storey Parks**

Ground space in city centres was too valuable for car parks, and multi-storey garages were essential. It might be expedient for such garages to be subsidized by local authorities to encourage people to spend money in the cities. Although it was more profitable to build for uses other than car parking, a city might have many new buildings but increasingly fewer people because they had nowhere for their cars.

There was bound to be room for

There was bound to be room for public transport, as many people would prefer to leave their cars on the outskirts of a city and continue by bus or train.

Mr. Brunner suggested two-shift daily working with movable week-ends to spread peaks in traffic.

He rejected the allegation that urban motorways did not cure congestion. They were an essential part of urban redevelopment and did not "tear the heart" out of cities, although such a hyperbole was fashionable.

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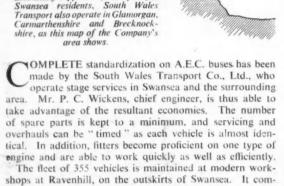


# ONE-MAKEFLEI BOOSTS ECNOM

The single-deckers seat 44 and 45 passengers on blue leathercloth seats: this material is common to all South Wales vehicles because it is found to retain dust less than moquette. Glass-fibre-reinforced plastics has been used for the rear corner panels from waist to skirt, presenting a smart appearance in the fleet livery of maroon and cream, with black wings and wheels.

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A.E.C. Single
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prises the following models: 111 Regent Mark V; 43

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Reliance; four Regal Mark IV; 34 Regal Mark III; 149 Regent Mark III; and 14 Bridge-masters. The vehicles are entirely of post-war manufacture and, as new Reliances come into service, 1949 Regal Mark IIIs are sold.

Essentially suppliers of transport for

Bodywork is shared among a number of coachbuilders. The largest single builder is M.C.W. with 255. Others are Willowbrook (53), Park Royal (32), Windover (four), Bruce (six), Roe (two) and Harrington (three). The Park Royal bodies are mounted on Reliance and Bridgemaster chassis: further vehicles of this type are on order.







(7) Double - deckers, used on the valleys services, parked at St. Mary's Square terminus, Swansea.

(8) A general view of the up-to-date machine shop and unit overhaul area at the Ravenhill works.

(9) Two of the new Reliance singledeckers at the terminus of the arduous route to Townhill.





(1) A recent addition to the A.E.C. fleet picks up at the reclaimed tramway square at Oystermouth. (2) A Gorseinon-bound Regal (2) A Gorseinon-bound Regal single-decker passes a town service bus in Swansea's Castle Street. (3) The Civic Hall of Swansea provides a modern background for a modern double-decker.

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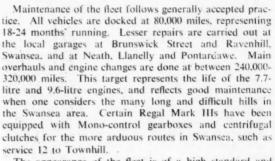
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and Country Services are with Equal Efficiency by A.E.C. Single- and Doubleuses of the South Wales Transport Concern



South Wales executives:
(4) Mr. E. C. Hill, traffic manager; (5) Mr. H. Weedy, general manager; (6) Mr. P. C. Wickens, chief engineer. They control 355 vehicles operating 84 services. vices over 850 route miles.

By D. R. MacGregor, B.Sc. (Econ.)



The appearance of the fleet is of a high standard and





February 1

owes much to the policy of Mr. H. Weedy, general manager. Several double-deckers recently put into service have been left in their original aluminium. It will be interesting to see what will happen to their appearance in the salt-laden atmosphere of Swansea.

Fortunately for Mr. E. C. Hill, traffic manager, the concern's area is compact by ordinary standards. Few routes are more than an hour's journey. The company last year operated over 849.25 route miles on 84 separate services. On 25 of these, however, services are jointly provided, in part or whole, with United Welsh, Western Welsh, Messrs. J. James of Ammanford, Red and White Services, Messrs. Reese Williams, Llynfi Motor Services, West Wales Motor Services and with Messrs. S. Eynon and Sons.

VALES OLID WARRING TO GROUN WARRING TO BY WA

sufficient, but on Routes 75 and 76 from Port Tennant to either Brynmill or Tycoch there is a regular 5-minute service. On Route 74 from Sketty to High Street Station there are nine vehicles every hour, giving a 6-7-minute frequency.

In an area such as Swansea, workers' services are numerous. South Wales vehicles operate an hourly service from Swansea and Briton Ferry to the Abbey steelworks at Margam via the new Briton Ferry river bridge. By using the new bridge, the journey time has been reduced by up to 30 minutes. The old route, service 3/42, via Neath, has a regular 20-minute frequency. Other works services are provided to nearby collieries and the Royal Ordnance Factory at Pemberry. The staggering of hours has enabled the same buses to provide transport for the

Morris Motors works at Felinfoel, the R.N. Store at Llangenech, and the Trostre steelworks. The company prefer to duplicate services at peak hours rather than to increase frequencies.

In addition to Swansea, town services are provided in Llanelly Borough. These services were acquired as recently as 1952 from the Llanelly and District Electric Supply Co. As the name of the original operators implies, services were operated by trolleybuses, but South Wales have since scrapped these vehicles and the routes are now covered by motor buses. In all, there are 15 different routes in Llanelly: each service number carries the prefix "L." Services radiate from the station or Town Hall Square, and frequencies range from 10 to 20 minutes.

South Wales Transport have the benefit of well-lit and well-ventilated pits in the inspection area. Standardization has p oved its economic worth here.

Joint operations are carried on with United Welsh on six of these routes, but the main joint service is Route I from Swansea to Ystradgynlais, a 62-minute journey. South Wales operate all the through journeys between the two points, whilst United Welsh and James provide short journeys within a section of the route.

The routes operated by South Wales reflect, in many ways, the geographical nature of the area. Routes out of Swansea run along the coast, either to Neath and the steelworks at Margam, or westwards to Llanelly. The routes to the north run up the valleys to Carmarthen, Ammanford and Landilo, Brecon and Banwen.

Service 28 to Brecon is a two-hourly facility over a varied route, and is the longest stage service operated by the company. As far as Ystradgynlais, the route is more or less industrial, but beyond, the road winds up the valley, through remote countryside, often difficult in winter, to Sennybridge and Brecon. An impression of the area around Brecon can be gained from the fact that the surrounding hills are used as artillery ranges. At Brecon connections can be made with Western Welsh or Red and White services to Abergavenny, Hay-on-Wye and Hereford.

Frequent services are provided in Swansea itself. By far the most difficult routes are 12, 12A and 12B, serving the Townhill area. They are precipitous, with a maximum gradient of 1 in 5. With a 9-minute frequency on all three services, it is gruelling work for the Regal Mark III and Reliance vehicles operated. On the lesser of the town services, a 10- or 15-minute frequency is

The passing of the South Wales Transport Act, 1959, permitted the Mumbles Railway to be replaced by buses and this was carried out on January 5, 1960. The effect has been to improve the service to one of 6 minutes during peaks between Oystermouth and Swansea, and every 12 minutes between the Pier and Swansea by extending the existing service from Morriston to St. Helens.

South Wales Transport, strangely enough, do not operate any express services. They make up for it, however, by the scope of their comprehensive programme of extended coach tours. They are one of the leading stage operators to enter the field, and they are the only operators in the area licensed to run Continental tours. Their picking-up points extend as far as Cheltenham, where connections can be made with Associated Motorways.

For extended-tours operations there are three basic requirements: good coaches, good tours and good organization. The South Wales coaches are based on the well-proved Reliance chassis and the bodywork is of the Weymann Fanfare design. Additions to the fleet in 1960 will include Harrington coachwork on the same chassis. Seating 37-41 passengers, the coaches have done much to stimulate Continental travel among people living in Swansea. In 1958, one of these vehicles gained an award for comfort at the Brighton Coach Rally. In the same year, it was a South Wales coach that first penetrated the Iron Curtain, when two Fanfares carried out an extended tour of Czechoslovakia.

(Continued on page 83)

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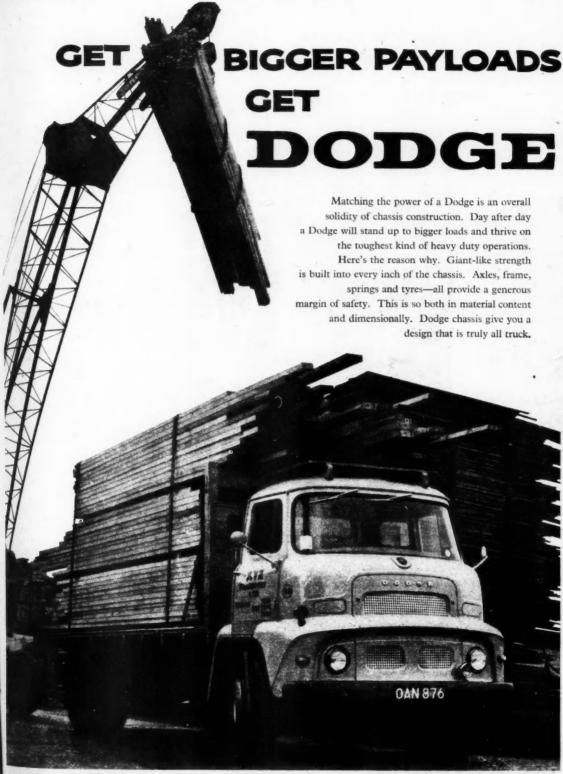
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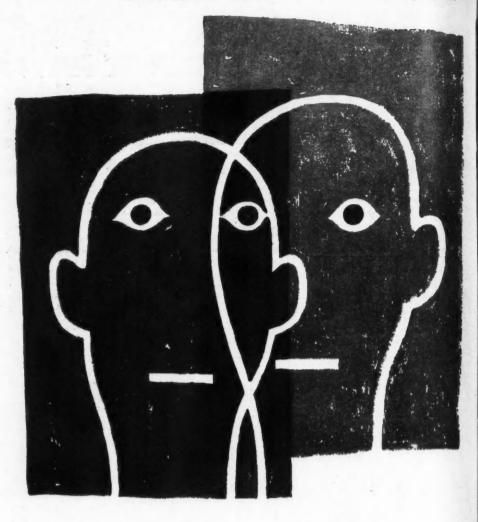
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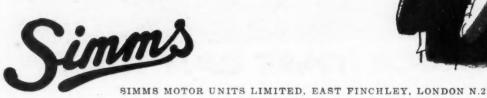
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... With costs rising all the time, how can they still make such a fine rump so reasonably? It's against nature...

Then you'd better tell nature to get in touch with Simms. They know how to maintain quality without costing their products out of the market. And that, of course, goes for their fuel pumps, too. Maybe it's volume production—they make enormous numbers of the things nowadays. Maybe it's sheer production knowhow. Whatever it is, they are beautiful pumps. Easy to service, dead reliable. No wonder Simms are the world's largest producers of 4-cylinder diesel injection pumps.





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Photograph National B operators To cater for these tours, a special department was formed at the head office in Russell Street so that all inquiries and bookings could be dealt with efficiently. Tours of varying duration are run to most Western European countries, and for those wanting extended tours in Great Britain there is a selection which includes Scotland, Wales, the Channel Islands, South Coast, London, and Blackpool. The tours department also deal with private hire and act as agents for Associated Motorways, British Railways (Continental Rail Travel), Butlin's holiday camps,

Silver City Airways, Europabus and the Scottish Omnibus

With a fleet of 355 vehicles, South Wales can be considered of medium size within the B.E.T. group, and with a compact area of operation, one is apt to miss the high regard which the Welsh people have for the company. Since 1936, with the granting of the Swansea and District Transport Act, close co-operation has been maintained with the local council. This authority has a share of the profits and there is a joint consultative transport committee.

#### Letters to the Editor

# The Tanker Argument Continues

I SHOULD like to answer the statement by Mr. Alec Mosley, of the Mobil Oil Co., Ltd. (*The Commercial Motor*, January 22), that National Benzole were not the first company to use 2,000-gal. four-compartment all-product tankers based on the B.M.C 7-ton chassis. As early as February, 1958, we started discussions with the Austin Motor Co., Ltd., on fitting a 2,000-gal. all-products tank on the B.M.C. 7-ton chassis.

Our prototype was displayed at B.M.C.'s commercialvehicle shows in May and June last year. The first vehicle was licensed and in use at the beginning of last July. Ten came into operation that month. The picture accompanying this letter was taken last June.

London, S.W.7.

7. A. Morris,
Manager, Motor Transport Department,
National Benzole Co., Ltd.

#### Work Study May Reduce Turn-round Time

IN a recently published pamphlet of the British Productivity Council, examples of work study are given and it is interesting to find that in one the discharge of vehicles is linked to the studies. A new method of laying pre-cast concrete slabs was adopted to overcome the lack of synchronization of unloading and laying gangs.

"Every lorry load of slabs was examined quickly to determine the best order of laying to suit the disposition of the load," says the report. "By stacking the first few blocks off the lorry in order near the laying gang, and then taking the blocks either from the lorry or the stacks as required, the gang could lay long runs of different types of blocks instead of continually shifting the scene of operation to suit the convenience of the loading gang."

Primarily, the savings were concerned with the speed of slab-laying, but the proper evaluation of results and the further investigation of ideas might well lead to increased efficiency in particular aspects of the combined operation. Although the object of the exercise was not to provide data for the transport side, there is an indirect lesson to be learned for all students of quicker and more efficient handling of loads.

Increased efficiency in this particular operation could result in further savings in unloading labour and thus automatically reflect favourably in reduced standing time for the vehicles involved. It is unfortunate that few people have seen fit to link their efforts to transport, and that transport operators have failed to explore time and motion studies in conjunction with their larger and regular customers.

Southend-on-Sea.

TRUNKIE.

#### Differences in Front-entrance Bus Bodies

ACCORDING to the description of some front-entrance bus bodies being built by Massey Bros. (Pemberton), Ltd., Wigan (The Commercial Motor, February 12), the three being constructed for my undertaking are similar to one which is being built for Baxter's Bus Services, Ltd., Airdrie. In fact, the bodies which I have ordered are quite different in the following respects:

(1) The staircase of the Morecambe bodies is not of Y formation, but is what we have come to regard as an orthodox front-entrance stairway. (2) Baxter's vehicle is a low-bridge type with a side upper-deck gangway. Mine are Hybridge models with a central upper-deck gangway. (3) On the Morecambe vehicles there is no space behind the driver's compartment for the conductor to stand. Space for him has been provided by using only a single seat on the near side to the rear of the entrance.

Morecambe.

A. V. Rigby, General Manager,

Morecambe and Heysham Transport Department.

[The description published was based on information supplied by Leyland Motors, Ltd., whose chassis are being used.—Ed.]



Photographic evidence to support National Benzole's claim to be the first operators of 2,000-gal. tankers on B.M.C. 7-ton chassis.

# **Determining Decibels**

BY using transistors Dawe Instruments, Ltd., 99 Uxbridge Road, London, W.5, have produced a self-contained sound level meter with overall dimensions of 8½ in. by 5½ in. by 3½ in. which weighs only 4 lb. The type 1400 E meter, as it is designated, could be used to measure the noise produced by a vehicle or the sound level in passenger compartments.

It could also be employed to check the quiet running of transmission components and similar items. The unit incorporates a microphone and the reading is indicated on a semi-circular scale. It is powered by a dry battery.

#### Theft Prevention

A COMBINATION lock which replaces the normal ignition switch is the basis of an anti-theft device for vehicles developed by Mr. A. T. V. Johnson of the Melton Garage and Engineering Co., Ltd., Melton Mowbray, Leics. The lock breaks the electrical circuit until the correct combination has been applied to its dial.

When the vehicle is left unattended an additional switch is put in the "on" position to guard the main lock, with the effect that, if the lock is tampered with, the vehicle's horn or an additional warning device is brought into action. The doors of the vehicle can be protected by a second combination switch.

#### Hydraulic Hose

A BRITISH-MADE hydraulic brake hose reinforced with high-tenacity synthetic fibre has received the approval of the American Society of Automotive Engineers. Prior to this, only hose incorporating rubber had met their stringent specification.

The hose and its metal end fittings are manufactured by Tecalemit, Ltd., Plymouth, Devon, who state that the complete assembly greatly exceeded the A.S.A.E. safety and performance requirements. A number of American vehicle manufacturers are already testing the Tecalemit hoses.

#### Rope Marketing

Tow ropes produced by R. Perry and Co., Ltd., 90 Church Street, Birkenhead, have been marketed for many years by Holt Products, Ltd. This arrangement has been discontinued and the ropes are now available direct from the manufacturers.

Two types are offered. The KKL toggle rope requires no special fittings. Each end carries a cross-piece which is passed around the axle or other towing member and then pushed through a double section of the rope to form a

loop. The sizes available are suitable for towing 1½, 3 and 5 tons.

The KKL nylon rope is 1 in. in circumference and 12 ft. long. Conventional shackles are fitted at its ends and it has a breaking strain of 2,000 lb.

#### Telephone Hire

This concrete-carrying body is a new attachment for the

Muir-Hill 10B dumper on

which it is shown. The body

has a liquid capacity

BATTERY-POWERED telephones are offered for hire by Harvid Commodities, Ltd., 84 Baker Street, London, W.1. The handset units are self-contained and can be connected up by the hirer using ordinary bell wire. They are powered by dry batteries.

The units can be rented for as short a



Transistors make the Dawe 1400 E sound level meter light and compact. It is self-contained and powered by a small dry battery.

period as three months and cost 4s. a week for two instruments or 3s. a week for hire of two years or over. This charge includes replacement of batteries.

#### First Aid

A DHESIVE plaster in a novel pack which makes it particularly suitable for carrying in the document pocket or dashboard compartment of a vehicle is offered by Trico-Folberth, Ltd., Great West Road, Brentford, Middlesex. The plasters are wrapped in transparent plastics sheet and contained in a coloured plastics cover to make up a booklet, hence the name, Plastabook. It costs 3s. 6d.

#### Clean Cutting

THE tungsten arc process originally developed by the Linde Company of the Union Carbide Corporation for cutting readily oxidized metals such as aluminium, stainless steel, titanium and copper, is now marketed in this country

by British Oxygen Gases, Ltd., Bridgewater House, Cleveland Row, St. James's, London, S.W.1, in arrangement with Union Carbide, Ltd., 103 Mount Street, London, W.1.

A non-consumable electrode working in a stream of gas is the basis of the process which provides a high cutting rate and leaves a metallurgically clean cut edge free from contamination.

#### Concrete Dumper

A N improved concrete-carrying body is offered by E. Boydell and Co., Ltd., Old Trafford, Manchester, for use with the standard Muir-Hill 10B hydraulic dumper. The body has a liquid capacity of 2 cu. yd. on a 1 in 10 gradient.

The unit is primarily designed for carrying concrete from batching plants to sites in cases where the distance is too short to merit agitators or vehicle-mounted mixers. It provides a tipping height of 4 ft. 6 in.

For slow discharge when partially tipped a vibrator unit can be fitted below the body mouth, whilst a chute can be supplied for ground level delivery.

#### Six-wheeler Braking

A RECOMMENDATION for the layout of braking systems on four-wheeled vehicles converted to six-wheelers by the addition of a trailing axle has been put forward by the Clayton Dewandre Co., Ltd., Titanic Works, Lincoln.

Co., Ltd., Titanic Works, Lincoln.
On some conversions the hydraulic brakes on the third axle have been connected direct to the existing Hydrovae on the original vehicle. However, this unit is not of sufficient capacity to operate brakes on three axles. The correct practice is to introduce an additional slave vacuum-hydraulic servo, with its own reservoir, into the system to provide third axle braking.

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# Better Let a Lawyer Conduct Your Applications

Proper Legal Representation is a Great

Advantage, Even in Minor Cases:

Evidence of Hiring May Misfire: Normal

User Percentages Vary

By G. Duncan Jewel!

THIS is the second of three articles

I dealing with the difficulties to be

overcome in presenting applications

for renewal and variation of A and

B licences. The final article will

discuss back - door methods of

entering haulage.

F, after an application has been listed for public inquiry, it is decided to seek an adjournment or not to proceed, it is essential to notify the Licensing Authority and any objectors in good time. Failure to do so wastes public money, causes irritation and creates a very bad impression which could well be prejudicial in the future.

When the application is heard it is usual for the applicant or his legal representative to outline the case and the evidence to be given. Even in minor applications or renewals without variation, there is a great advantage in having proper legal representation, as questions of normal user and other complications can arise without warning.

When the applicant and his witnesses give evidence, care should be taken to avoid conflicting statements. All too often an applicant tells the Licensing Authority of a customer's need for additional vehicles without having first established the extent they will be used. It is no use asking for an additional vehicle if it is to be used for only two or three hours each week.

The court should be told what inconvenience will be caused if a grant is refused, and many applications have foundered because this could not be proved. Evidence is of little use if the Licensing Authority and other persons concerned cannot hear what is being said. The witness who speaks slowly and in a loud clear voice creates a good impression and gets over all the important points. During cross-examination, the objectors should not be given a chance to confuse the issue by lengthy answers to questions, when a straightforward "yes" or "no" will suffice. Above all, no allegations should be made against objectors, unless they can be substantiated.

Although evidence is not given on oath, Section 34 (3) of the Road and Rail Traffic Act, 1933, provides for punishment by fine or imprisonment of any person who

knowingly makes a false statement in order to obtain the grant or variation of a licence. Also Section 9 (4) of the Transport Act, 1953, provides that an A or B licence may be suspended or revoked if the holder submits false statements of fact or intention.

If there has been a departure from the terms of the existing licence during ils currency, or irregular operation, the applicant's legal representative

should know the facts, in order to meet any contingency. Even though objectors may not raise questions of illegality without prior notice, if such information came out during the hearing, other than voluntarily, the result could be disastrous, and lead to revocation or suspension.

Although little value is attached to letters by themselves, they can be useful in supporting verbal evidence, for instance to indicate a general increase in trade in a district, or to show the number of additional witnesses who might have been brought.

If the objectors call evidence, an applicant should ensure his own legal representative has facts that can be used to question their ability to provide the services required. or refute their submissions against a grant.

Certified figures and other documents in support of the application should be handed in at the opening of the case, with sufficient copies for the objectors, the applicant and his lawyer. Unless they are kept as simple as possible, the objectors may seek an adjournment to study them

The Transport Tribunal have suggested that, in important cases, it would be an advantage if documents were exchanged before the inquiry. This is sound advice, provided the applicant is satisfied that the objectors are prepared to follow suit.

Evidence of excessive hiring, while useful, should not be regarded as the main plank, for if a haulier meets the

requirements of his customers by handing on some work to other hauliers, this shows that facilities do exist to meet the requirements of those customers.

For example, hiring can mean many things such as: an increase in business with a particular customer who has ceased to use other hauliers; the conduct of a

clearing-house business side by side with one's own haulage business; deliberately taking on more work than can be handled to build up a "hiring" case; or hiring to carry traffic to places from which back-loads are poor.

Where cases are adjourned part-heard, and it is desirable to have a record of the proceedings, a transcript of the short-hand notes may be obtained through the Licensing

When objections are concerned with normal user, it should be remembered that no exact definition exists regarding the percentage of work permissible outside the normal user of an A licence. The percentage seems to vary according to the particular traffic area. In Scotland, for example, there are licences which define it as anything from five to 25 per cent., according to the particular

traffics. In other areas, percentages are not used on the licence and the user is distinguished by the word 'mainly." For these reasons an applicant should not give an undertaking to do no work outside his user, nor should he worry unduly if it is sought to eliminate traffics and areas which are not a large percentage of the total work. The important point is that if they are mentioned at the inquiry, it

cannot later be said that they were not disclosed at the time of the application.

However, although he is entitled to do any work which comes along occasionally, with an A licence, once it becomes general, a haulier must take steps to regularize it.

When an unopposed application is brought to inquiry. it is usually because the Licensing Authority is not satisfied with the figures, or the normal user. Some applicants. having satisfied objectors at Road and Rail Negotiating Committee, have thought a grant would be automatic. This is not so. The Licensing Authority still has to be satisfied there is a need for the continuation of the licence.

An applicant whose application fails may appeal to the Transport Tribunal within one month of the decision.

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# Tax Removal Boosts Sales of Heavy Vehicles

REMOVAL of purchase tax on goodsvehicle chassis last April was probably the main reason for the 16½-per-cent. increase in production in 1959 compared with the previous year. A total of 353,105 goods vehicles was made last year, 50,095 more than in 1958.

The most significant increases were in the heavier categories. The number of vehicles of up to 15-cwt. capacity made rose by 11 per cent. to 185,029, whilst that of 15-cwt.-3-ton vehicles actually fell marginally to 68,580.

dropped by 18½ per cent. to 1,990, whilst trolleybus production slumped from 216 to 69. The number of single-deck motorbuses apparently more than doubled, 15,320 being made last year.

The Society of Motor Manufacturers and Traders explain that the 1959 figure is loaded by 8-12-seat light-van conversions. These were previously returned among totals for goods vehicles. The figures for small buses are not segregated from those for normal single-deckers.

Many small buses are registered as

#### PRODUCTION-DECEMBER, 1959

	Dec.	JanDec.
Goods vehicles, tractors and special types		
Under 15 cwt. 15 cwt.—3 tons 3—6 tons Over 6 tons	19,017 7,773 5,436 5,143	185,029 68,580 50,589 48,907
Totals	37,369	353,165
Passenger vehicles Motorbuses, single-deck Motorbuses, double-deck Trolleybuses	1,645 196 5	15,320 1,990 69
Totals	1,846	17,379
Grand totals	39,215	370,464
Weekly averages	7,843	7,125

best market for commercial vehicles, taking 14,890 to a value of £8.5m. South Africa took second place, having bought 8,611 vehicles to a value of £6.2m, although in 1958 that country spen £9.2m. on 11,076 vehicles.

Denmark, Finland, Nigeria and New Zealand were the next best customers, in that order. Sales to the U.S.A. rose from 3,436 vehicles worth £1.2m. in 1958 to 6,066 to the value of £2.3m. last year.

Last year's exports of complete vehicles and chassis to five of the six countries which, with Britain, will form the European Free Trade Association were as follows: Denmark, 8,714; Norway, 3,219; Portugal, 1,350; Sweden, 4l; Switzerland, 581. Figures for Austria, the other E.F.T.A. participant, are not given by the S.M.M.T.

The total for the six countries mentioned, at 14,905, indicates that trade with other E.F.T.A. countries is already equivalent to that of Australia.

#### NEW COMMERCIAL VEHICLE EXPORTS-DECEMBER, 1959

Туре	D:cember		January - December	
Туре	No.	Value &	No.	Value £
Goods vehicles, complete and chassis, assembled and unassembled	11,718	7,734,998	121,763	76,679,076
Motorbuses and trolleybuses, complete and chassis Road haulage tractors Other descriptions, complete and	509 51	747,732 116,825	4,832 631	8,419,612 -1,671,407
Chassis  Dumpers and dump trucks Industrial trucks  Trailers	73	185,421 370,770 251,762	843	1,916,328 3,789,641 2,201,793
Totals	12,351	9,407,508	128,069	94,677,857

Production in the 3-6-ton bracket, however, went up by 34 per cent. to 50,589, and in the over-6-ton class by about 62 per cent. This indicates the extent to which makers of the heavier types were affected by the tax.

In the passenger-vehicle category, the output of double-deck motorbuses

private cars. In fact, only 500 8-14seaters were newly registered as hackneys in the first 11 months of 1959.

Exports last year improved to a total of 128.069 units compared with 121.685 in 1958: respective earnings were £94.7m. and £89.7m.

Australia remained as this country's

## Fluorescent Lamps for Bus Interior and Display Panel

THE Potteries Motor Traction Co., Ltd., have introduced fluorescent interior lighting into one of their Leyland Atlanteans to replace the existing incandescent lights, and made provision for fluorescent illumination of an advertisement panel on the off side.

Twenty-eight of the existing lamps were replaced by 10 2-ft.-long 20w tubes. The former bulbs had a total battery consumption of 14 amp., whereas the tubes consume 10.5 amp. Five transistor converters working at 6,000 cycles per second convert 24v. D.C. to 70v. A.C. for the tubes.

The transistors are installed in the cove panels, and points giving access to them are concealed by advertisements. Two tubes have been mounted in the cove panels, and the remainder are arranged diagonally above the seats. It has been found that a more even distribution of light is given by the fluorescent units, and that total light output is higher although battery drain is reduced.

A separate transistorized circuit feeds 10 identical tubes which illuminate a Littlewoods Pools advertisement. This measures 18 ft, long by 1 ft, 10 in, deep. The panel consists of three translucent Perspex sheets with the display spraypainted on the back. The sheets are supported in a Clatonrite glazing strip and valance framework made from 16-gauge aluminium sheet.

Tubes and transistors, supplied by Philips Electrical, Ltd., are secured beneath the valance by brackets. An extrusion about 1½ in. beyond the normal body line accommodates the sign and equipment. It is within the 8-ft, width limit



This picture shows how effective is the advertisement sign attached to a Leyland Atlantean of the Potteries Motor Traction Co., Ltd. It is lit by fluorescent lamps, the current for which is converted by transistors.

Dec. Jan.-Dec.

19, 1960

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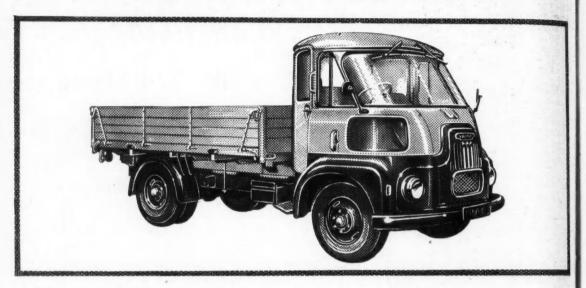
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a Leyland fluorescent



# Angle planning gives the new B.M.C. 2, 3, and 4 tonners

the most striking advance yet in easy-access cabs



## look what new B.M.C. planning gives youeasy access-safety-economy

Look at that door design—angled for safer vision and easier access. (The doors hardly project beyond the line of the vehicle when open.) Look at the cab design—giving all-round vision, the safest yet! Take a good look at one of these new B.M.C. 2, 3 and 4 tonners—and you'll see that the instant-access panels will cut maintenance and inspection time right down.

Take advantage of this brilliant conception in chassis layout; choose the most forward-looking firm of coach-builders for your bodywork. Choose Normand Limited.

Manufacturers of alloy, composite and plastic bodies.

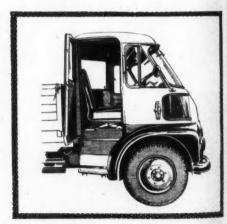
Suppliers of commercial vehicle chassis.

Mechanical, electrical and coachwork repairs of all types. Heavy and medium engine exchange specialists.

Vehicle contract maintenance.

Contract painting.

Fitting agents for Tecalemit 'Syndromic' and A.C.L. mileage-controlled chassis lubrication.



ALL UNDER THE SAME ROOF AT



NORMAND LIMITED, PARK ROYAL, N.W.10 Telephone: Elgar 7757 (8 lines)

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# Political Commentary By JANUS

# PIPE DREAM

87

Pairs tales make their impact by means of a contrast between fancy and commonsense. Shipwrecked on the coast of Lilliput, Gulliver wakes up to find himself a prisoner of the little people. The practical shoemaker who has been unable to understand how his repairs got done by themselves during the night gazes in astonishment at the phantom cobblers stitching away for dear life and no reward. The shrewd, down-to-earth haulier wonders what "normal user" he would propose for carrying Masefield's ivory, apes and peacocks, cedarwood, sandalwood and sweet white wine.

Seldom are the Transport Tribunal moved by a flight of fancy. They are sceptical towards anything they cannot understand. In a recent written decision reversing a grant by the Scottish Licensing Authority, they sum up in a few words the case put on behalf of McKelvie and Co., Ltd., Motherwell, and note in a matter-of-fact way the claim that there are "peculiarities" in the route that it was proposed should be taken by the four articulated vehicles for which an A licence was sought. Like Bottom, the weaver, the Tribunal seemed not to understand exactly how peculiar the circumstances were.

Pipes were the only traffic mentioned. They were to be carried from Motherwell to Blaenau Ffestiniog, over the hills and far away (about 280 miles as the Tribunal note in their precise fashion). For the most part the decision speaks of "piping," almost as if even the Tribunal had been bewitched by distant music in harmony with the horns of Elfland faintly blowing.

The inevitable statistics momentarily shatter the illusion. The pipes (266 of them if you must know) were nearly all 30 ft. or more in length, with diameters up to 10 ft. 8 in. and weights up to 17½ tons each. The Tribunal, in an offhand manner that possibly betrays a lack of true conviction, pass on the account they have been given of the reason for carrying all this ironmongery such a long way. At off-peak times when the generating plant at the Ffestiniog power station is not required for the public supply of electricity, say the Tribunal, it can be used to pump water from a low level to a high level. By returning through water turbines to the lower level the water will then generate electricity at times of peak demand.

#### Playthings of Giants

That is how it may appear to the man without the gift of second sight. It is the kind of reassuring explanation one would hasten to attach to a fortuitous collection of enormous pipes in a mountain fastness of North Wales. They may more easily be supposed playthings for a race of Welsh giants.

This interpretation fits in better with the rest of the story as told in the written decision. However desperately from their prosaic abode in London the Tribunal endeavour to shed the cold light of reason on the facts, they remain steeped in a Celtic twilight where the centuries blend and blur. As a narrative from the Mabinogion, the McKelvie case might well rank with the greatest folk-tales of all time. As a part of the official record of the Tribunal's deliberations it sits not very easily between Appeal 1959 No. V.49 and Appeal 1959 No. V.52.

There is the puzzle of the 13-ft. bridge—and one may note in passing that the very number has a special significance to the adepts of magic and witchcraft. When first mentioned, the bridge was said to be five miles from the site at Blaenau Ffestiniog. Later it is reported as "in the

region of nine or 10 miles perhaps" and then as between nine and 15 miles. The moment arrives—familiar, one may almost say commonplace, to the addict of the ghost story—when a witness is handed an ordnance map of the district and cannot find the bridge marked upon it. On the other hand, the objectors found two 13-ft. bridges. "But," said the Tribunal, dropping into a mysterious tone possibly in spite of themselves, "neither was on a route which need be, or was or would normally be, taken by vehicles carrying the sort of loads with which we are concerned."

Try as they may, the Tribunal continually find themselves straying into the language of the fairy tale. The opening sentence of such a tale might well be found in the very words with which the Tribunal aimed to put a peremptory end to what they evidently regarded as a hopeless chase through Scotch mist and Welsh rain. "Somewhere on some road in North Wales there was a bridge which was only 13 ft. high." Nobody can read this without wishing to know how the story continues.

#### Shifts in Time

Even more baffling to the Tribunal were the mysterious shifts in time, which notoriously means nothing to the little folk, although for ordinary mortals there are 24 hours in a day, seven days in a week and 266 pipes in a pumped storage scheme. One sympathizes with the Tribunal. They were told that the timetable drawn up by the haulier provided for a round trip of five days from Motherwell to the site and back. Then they were told that a representative of the manufacturers, when cross-examined in the traffic court, insisted "and not without vehemence" that the piping was to be delivered 24 hours after it had been loaded. Equally confusing was the evidence that the contract would take between 12-14 months, whereas the Licensing Authority had granted an A licence for five years.

For a good part of their judgment the Tribunal mulled over the mysterious vagaries of time and space. Their questions gave them no answers that accorded with chronometers and almanacs, or with rod, pole or perch. They turned with obvious relief to the rude mechanicals from the Ivory Tower who had gone to such trouble to put on a show for the court. The British Transport Commission, who had previously quoted for the job, were able to put forward "evidence of an unusually massive character." It was presented by Mr. Johnstone, the out-of-gauge loading officer, Mr. Fleming, the district goods manager, Mr. Irving, of Pickfords, Mr. Griffiths, the commercial manager, Mr. Ingham, of the Western area, Mr. Dawson, the goods agent, and Mr. Mack, the traffic assistant. Only Peter Quince and Snug the joiner were missing.

The railways made their point and won the decision, which is now part of case law. Who ultimately carries out the job is another question: he who pays the piper calls the tune. There may still be something of interest in the interminable typescript of the proceedings in the traffic court. The Tribunal tell us (typically) that there were 244 typed pages of evidence for the applicant and 178 pages for the objectors. Much of the argument, concerned as it was with 13-ft. bridges that may or may not exist, seemed pointless to the Tribunal; but it is here, if anywhere, that may be found the spells, the runes, the recipes and the conjurations that the appeal judgment seems to call for but fails to provide. Perhaps some student of the occult would like to take the matter further.

#### Planning for Profit

Complexities of Collection and Delivery Work Necessitate Systematic Recording and Allocation of Customers' Instructions

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This Thames Trader articulated vehicle has been purchased by Cedar Homes, Ltd., Guildford, makers of prefabricated timber houses and bungalows. All parts are delivered by road throughout the country.

# EXPANSION Means More Difficult CONTROL

OTORWAYS have understandably been in the news lately and the success of the M1 augurs well for future developments. It should never be overlooked, however, that the prime asset of road transport is its flexibility and the door-to-door service which it alone can offer.

Extensions of motorways and the provision of dual carriageways on existing major roads will undoubtedly facilitate speedier and more economic distribution. But however trunk services of the future may be effected, and even if some form of road-to-rail transfer vehicle or container were employed, collection and delivery by road will always remain a basic requirement for all but a small proportion of the total available traffic.

Significant figures in support of this fact are given this month by the Ministry of Transport in the advance abstract of the "Annual Census of Motor Vehicles, 1959." At September 30 last, there were 1,325,616 goods vehicles, an advance of 57,118 during the year. Of the total, 737,320 had an unladen weight of not more than 1½ tons and the corresponding increase over the previous year's figure was 43.878, representing, at a conservative estimate, an expenditure exceeding £20m.

In addition to accounting for a high proportion of the total number of goods vehicles on the roads, local delivery work is carried out mainly by small operators. Although the tonnage moved is small, the number of individual consignments is often high, which inevitably produces some complexities in control and operation. Where the operator has only one vehicle, this difficulty can largely be overcome by the specialized knowledge which the driver will undoubtedly have of both local geography and customers.

#### Service Deteriorated

Operators of one or two vehicles under such conditions may well succeed with little or no efficient system of recording. Many examples have arisen in the past, however, when operators such as these have expanded their fleets, only to find that subsequently their service had deteriorated substantially. If nothing is done to remedy the position, the final result will be that a successful operator of long standing fails completely because his business has expanded without adequate consideration of all the factors involved.

There can be several reasons for injudicious expansion. Exaggerated importance may be given to recent, but temporary, increases in traffic. Credit finance facilities may be abused. New vehicles which have already been purchased by this means

may not require any more than servicing in the way of maintenance for several months. But unless adequate amounts are being regularly transferred to a sinking fund to provide for the eventual and inevitable contingencies, such as tyre replacements and major overhauls, a wrong impression of the prosperity of the business as a whole may have been gained. Any addition to the fleet resulting from such an assessment may well prove a liability, and have unfortunate repercussions on a previously economic fleet.

Even if there were adequate additional traffic to justify the purchase of more vehicles, and the money for them were available, overall profitability could still prove disappointing. This could arise because insufficient thought had been given to the organization that would be necessary to control efficiently the increased fleet. Especially does this apply when parcels or smalls traffic is being handled. With a few vehicles, the traffic clerk, or the person in charge, as well as the drivers, could do their work reasonably efficiently with little or no pretence of a record system. This, however, is an essential requisite of any sizeable fleet if it is to prove economic.

#### **Parallel Sequence**

It is logical that any system installed to record the movement of traffic should have a sequence parallel with the actual movement of the goods. First would come the recording of the customer's instructions. These might be given verbally on the telephone, or by the customer's own consignment notes for individual consignments or for collections and deliveries contracted over a period.

By whatever means customers' instructions are received, operational control will be simplified if they are entered initially on a standard form. The next stage would be to allocate the customers' orders to appropriate vehicles,

It might at first be assumed that time and cost of traffic recording might be saved by using the customer's own consignment or delivery notes, where these are supplied, as the operator's instruction to his driver. Unless a driver is working solely for one customer, however, this seldom proves practicable. Even if the customer's consignment notes are used to obtain a signature as proof of delivery, many operators will still find it an advantage to provide their drivers with some form of summary of the work they are to perform.

Careful planning of journeys is obviously at the root of efficient operation. Operators' written instructions to drivers

(Continued on page 89)

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ion? or even "Well. can ensure that such planning is put into effect. This would not necessarily apply if the driver were merely handed a batch of consignment notes, and left to determine the sequence of deliveries according to his own judgment and convenience.

As with all forms suitable for traffic work, the manner in which a summary sheet should be drawn up must obviously vary according to each operator's work. It should include columns for the date, the vehicle number and the driver's name. together with precise instructions as to the day's work. The need for clear and definite instructions cannot be overemphasized. Information which is self-evident to a traffic controller is not necessarily so to a new driver.

Where the work necessitates a batch of consignment notes being given to the driver at the start of the day, appropriate reference numbers should be listed on his instruction summary sheet. This would facilitate any subsequent confirmation of proof of delivery which might be required, and provide against the possible loss of one or more consignment notes. Otherwise a checker might subsequently be satisfied that all the necessary signatures had been obtained for the several items detailed on the consignment notes which had been returned, but still be unaware that one or more complete consignment notes were missing.

Where regular deliveries are made to an agreed timetable, the standard trip times should also be entered on the instruction summary sheet to facilitate the subsequent checking of time

#### Easy Reference

Earlier I emphasized that traffic recording was made easier if the pattern followed a logical sequence and, to ensure this, it is necessary to provide means of easy reference from one form to another. If the customer's original instructions are first recorded in summary, as suggested, the final column of the sheet should give the reference number to the appropriate line on the working arrangement sheet, on which duties have

been allocated to individual vehicles.

A recommended standard form for recording the initial orders as received from the customer could be divided into 12 vertical columns. The first would consist of the line number. followed by details of the receipt of the order. These could include the date, and time where necessary, and some indication whether the order was received verbally over the telephone, or in writing. Details of the goods to be delivered would then be set out, including the quantity, where applicable, and other distinguishing details, such as the type of package and the factory or branch from which it is to be collected, and, of course, the address to which it is to be delivered.

In keeping with the ever-increasing trend for higher standards in both the timing and regularity of delivery, the next three columns will be devoted to the customer's instructions in this respect, with appropriate entries as to the day, date and time delivery has to be effected. The final column could be headed Transport Reference Number," or in similar terms, so providing the link with the working arrangement sheet.

Dependent upon the type of work the operator is engaged on, the working arrangement sheet could be drawn up to cover the activities of a day, a week or any other appropriate period. In the majority of cases, a week would be convenient. the sheet could then be divided vertically into seven columns to allow for the seven days a week, arranged in whatever order corresponded with the company's working week.

#### Grouping Vehicle;

Horizontally, the sheet would be divided with one line for each vehicle of the operational fleet. Entries could be further facilitated by prior grouping of the vehicles by carrying capacity, and possibly by types of body.

A sample entry for any day relative to a particular vehicle would consist of the transport reference number quoted on the instruction summary sheet, together with brief details of the destination and a further reference number of the order issued

After collection and delivery there remains the final documentation of traffic to enable charges to customers to be computed, and to provide ready confirmation of proof of delivery. As mentioned earlier, and particularly where large numbers of consignment notes are necessary, the summary of their reference numbers on the driver's instruction sheet will assist when a search has to be made.

Where it is customary to quote a rate verbally when the order is received from the customer, as distinct from traffic passing according to standard schedules known to both parties. there must be some method of ensuring that the rate originally quoted is, in fact, the one finally invoiced. It is obviously irritating to the customer to find that he has been overcharged

If an error was known to have been made in the first instance. it is better, in the long-term interests of the operator, that the customer should be advised accordingly as soon as possible. rather than wait until the invoices are sent out.

## Warrington Hauliers Put Fast Atkinson on Motorway

AN Atkinson eight-wheeler has been specially built for motorway service with John Buckley and Co. (Warrington), Ltd. Its first journey was made with a Scammell 8-ton independent trailer, and 211 tons of washing powder was carried to the S.P.D. depot at Widford.

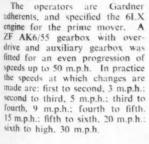
Essex. A speed of 52 m.p.h. was attained on the M1.

The operators are Gardner adherents, and specified the 6LX engine for the prime mover. A ZF AK6/55 gearbox with overdrive and auxiliary gearbox was fitted for an even progression of speeds up to 50 m.p.h. In practice the speeds at which changes are made are: first to second, 3 m.p.h.: second to third, 5 m.p.h.; third to fourth, 9 m.p.h.; fourth to fifth. 15 m.p.h.: fifth to sixth, 20 m.p.h.:

A number of such outfits is to be supplied. The prime movers are 24 ft. long and the trailers 20 ft. Twin airline brakes operate on diaphragms instead of cylinders. The company have experienced excessive brake-cylinder

corrosion in winter because of road salt.

Engine noise is dampened by a foamplastics bonnet cover. The cab structure is of plastics. Automatic 60-point chassis lubrication is installed, and Firestone tyres are fitted all round.



A speed of over 50 m.p.h. can be attained by this Atkinson-Scammell outfit on the motorway. Loads of up to 22 tons may be carried.



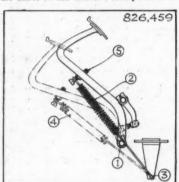
826,713

February 1

# Assisted Clutch Pedal

SPRUNG pedal which allows a clutch A sprung pedal which allows a with a heavy action to be released with about half the normal effort is shown in patent No. 826,459. (Daimler-Benz A.G., Stuttgart-Untertürkheim, Germany.) A spring mechanism that changes the direction of its force by rocking over dead centre is employed.

Referring to the drawing, the pedal is pivoted at the point 1 and is loaded by a stretched spring (2) towards its pivot; the spring being attached to the point 3. In operation, the spring creates a slight opposition to initial movement but, as the pedal is further depressed, the spring passes over the centre, adding its force to the effort of the driver. This position is



shown in chain lines at 4. Tension can be adjusted by the screw 5, which moves the effective centre-line of the spring.

#### AN AUTOMATIC GEARBOX

PATENT No. 826,655 describes an automatic transmission system employing a torque converter to augment the ratios of a two-speed gearbox. The main point of the invention is the mechanism used to effect a gear-change before the torque converter is loaded to a point at which its efficiency becomes unduly low. (Eimco Corp., 634-666 South Fourth West Street, Salt Lake City, Utah, IISA)

The drawing shows the gearbox which receives drive from the torque converter. The input shaft (1) drives a second shaft (2) and either of the two ratios can be engaged by hydraulic clutches (3 and 4). The output shaft and the reverse gears are not shown.

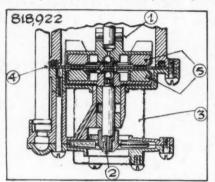
The subject of the patent is a centrifugal governor (5) driven by bevels (6). The governor has a snap action and operates the hydraulic control valve (7). The setting is such that if speed falls below that at which the torque converter

has 70 per cent. efficiency, the gearbox changes ratio automatically. An overriding manual control (8) is provided. Another patent, No. 826,654, accompanies

only, via a central tubular shaft, second rotor is the power output member and is provided with epicyclic reduction gearing shown generally at 7. This drives.

through bevel gears (8), the output shaft (9), which could be connected direct to the road wheels.

A free-wheel permits the power turbine to run slower but not faster than the compressor drive A release valve (10) is connected to the air duct and this, when opened, allows the compressed air to escape to atmosphere. This is used to give engine-braking; the fuel is cut off and the valve is opened. Power ceases, but the compressor, now being driven by the transmission via the free-wheel, continues to run and absorb energy.



this one, and references are made to an earlier patent numbered 794,413.

#### COMPACT GAS TURBINE

GAS turbine, suitable for use as the A power unit of a road vehicle, is the subject of patent No. 826,713. (Daimler-Benz A.G., Stuttgart-Untertürkheim, Germany.)

Referring to the drawing, air enters

through a duct (1) and passes to the compressor (2), after which it is pre-heated by the exhaust gases in a heat - exchanger (3). The hot air then enters the combustion chamber (4) into which the fuel is sprayed by injectors.

The gases arising from combustion pass through a primary turbine (5) and secondary unit (6). After this they pass through the heatexchanger to atmosphere.

The first turbine drives the compressor

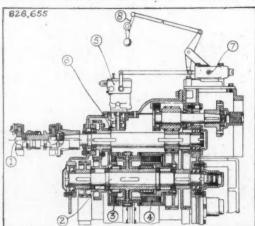
#### SUBMERSIBLE PETROL PUMP

SUCTION-TYPE petrol pumps are prone to vapour locking; this cannot occur with a pressure pump located if the lowest point in the fuel system, and such a unit is described in patent No. 818,922. (Tokheim Corp., Fort Wayne, Indiana, U.S.A.)

A pump positioned below fuel level must be sealed adequately and this aspect is the subject of the patent. It is important that the seal does not create friction, because the power available to drive the pump is limited.

The drawing shows the electric motor (1) and the pump impeller (2) surrounded by a gauze filter (3). The motor housing projects downwards into the fuel tank but is completely sealed off at its lower end by a diaphragm (4). This is made of brass, stainless steel or other nonmagnetic material.

The drive is transmitted by a pair of axially polarized ring-magnets as shown at 5. One is carried by the motor spindle and one by the pump. Their mutual attraction passes through the diaphragm and is sufficient to carry the normal driving torque. Slipping under excessive load prevents damage to the pump if it becomes jammed.



826,713

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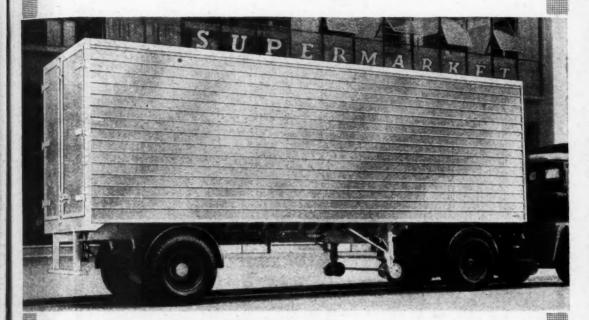
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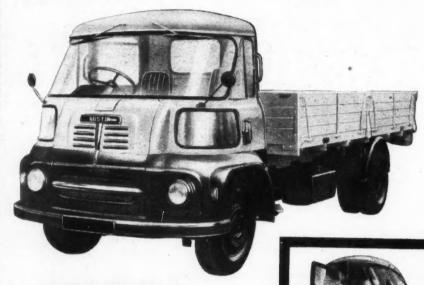
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AUSTIN 5-ton diesel, 14-ft. 3-in. timber flat.
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1957 COMMER TS3 long-wheelbase, fitted stainless steel 1,270-gal, tank, single comment, and cargo discharge pump, streamlined body 1942 A.E.C. 8-wheeler, 7.7-litre engine, since comparing size 2.5 to the comparing size of the comparing size

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incident forward-control platform
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1950 MAUDSLAY articulator (reconditioned AEC engine)
DENNIS Max diesel platform forries (choice at mine)

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miaden weight 3 tons 1955 AUSTIN unladen wei 1955, 10-cu.-yd. 1953, Incel-yd. 1952 VANGUAR 1952 E.R.F. 5LW ding cab a misden weight 4 tons 1950 float, good

1949 MAUDSL. 1949 chassis and 1949 order, unla 1948 SEDDON I CRAN
MORRIS Versatil
With Perkins P4
reverse or sideways (
A F C 7.7 eng

A.E.C. 7.7 eng to Ecylands for £35 with Dennis flywheel Comet engines and g MILLBURN N

Phone, N.B.: NEXT MOTO MARCH SIDFORD

98-116 1960, February, diesel, 7 1959, July, for

hiner, 625.

1957 Forwardfitted tilt
1956 W/C AU
base tipp
15 by 20 tyres, o
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1955 Forwardgrey, on
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> TILB CENTRAL

SEDDON COMMER-KARI PART-EXCH

1956 June de with de 955 SED DO 1954 SEDDO

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rward-control platfore ntrol truck. P6 diad c container cathe ma hroughout, £300, ward-control platen tiesel engine, cab sai fair, mechanical cas ove, with Albien dia MER Superpose 7-ton rop-side truck, person

ETERBOROUGH. 66011 fitted heater, brake ted heater, good tyre , maroon, £90. AD. BEDFORD.

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HAM, 6. 6-7-8. e-wheelbase light-olin painted cream a 50. r, £135.

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Eaton 2-speed powd body. el tipper, P6. de truck, petrol. sel 7-ton truck. platform trucks, Pf alloy platform truck orm truck, Leyland -ton platform truck r, P6. (reconditioned A.E.C.

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1952 DODGE 6-cylinder petrol-engined tipper.
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1959 BEDFORD 41-seater Super Vega, approximate mileage 10,000, as new, choice of (we).
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Resoluted vehicle due
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DRISTOL double-deckus Dalmetal bodies, low DYLISS, Timberham D surey. Horley 4534 1950 dition. 3-cyli 1950 erificate of fito

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BRITAIN'S LARGEST SELECTION OF FIRST-CLASS LUXURY COACHES OFFERED AT REDUCED PRICES.

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NEW FORD Thames Trader Duple 41-seater.
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1959 BEDFORD diesel 41-seater Burlinghams, choice of three for delivery in February.

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Sacater, heaters, etc.; this machine is immaculate throughout, certificate of fitness 19-48.

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IDEAL FOR EXPRESS AND LONG-DISTANCE
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BURLINGHAM COACHWORK.

COMFORTABLE scating in red figured moquette capacious luggage rack on lower deck, good enclosed loading platform, wide stairways, good heating system. Perspex roof lights, exterior colours red, current certificates of fitness.

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20 double-deck, 53 seats, of smart appearance, 1949 bodies by Eastern Coachworks, seating red moquette, heaters fitted on both decks, all certified, in good, sound condition, having been well maintained by a large companies of the condition of the cond

1960, £235. 1949 Registration A.E.C., 7.7-litre oil engine, rebuilt work, certificate of fitness August, 1960, well maintained.

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1950 COMMER Avenger, 33-seater Strachan body, ready for certificate of fitness, repainted cream and red. £375.

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1949 very clean coach, good tyres, certificate of fitness 1961. £300. Smiths Coaches. Corby Glen.

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1954 luxury body, heater, radio, etc., certificate of until December, 1964 £1,850, MANCHESTER RD., Hollinwood, Oldham, Phote, Fallsworth 143.

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Balstol double-decked. 56 seats, 5LW Gardner engines, bulmetal bodies, low bridge, from £225.

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1952 FODEN 6LW 41-scater Whitson, certificate of finess October, 1961, good, clean condition throughout, would consider taking H/C. 35-scater in artechange £1.350 o.n.o. Box CM4316, care of "The Commercial Motor."

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Two LEYLAND PS1s, 33-seaters, half-cab, 1947 purple, heaters, reconditioned gearboxes, fuel pumps amunic glob each. 14 Canterbury Rd., Whitstable 3939 1950 LEYLAND Comet 31-seater, dryer-operated door, needs recertifying, £325 on.o. Leyland B., fall-front Duple, certified July, 1960, 37-seater, £425 cmst Coaches, Woodham Ferrers 230. 844-x332.

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1952 TILLING-STEVENS 37-seater express luxury conch, heaters and radio, general condition mod, but engine needs new crankshaft, £475 or would suiter exchange with cash adjustment either way or full-but lazury coach of 33 seats or over, Spiers, Ltd., Oets Street Garage, 4 Market Place, Henley-on-Thames. Base 312.

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### February 19, 1968—THE COMMERCIAL MOTOR 55 (Supplement)

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NEW FORD Thames Trader, Burlingham body, immediate delivery.

1958 BEDFORD, petrol. 41-seater Duple, radio, heater, excellent condition.

1958 BEDFORD 41-seater Duple, fitted with Leyland Comet engine, choice of two.

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1957 Very clean bodywork.

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1951 BEDFORD Duple 33-scater, red and cream, 1950 COMMER Avenger 33-scater Plaxton.

MAUDSLAY Marathon Mk. III 33-scater full-front Duple, certificate of fitness 1963. WE specialize in part-exchange with the easiest of hire-purchase terms.

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NEW BEDFORD Duple-Plaxton-Burlingham 41-scater coaches, 1960 models, choice of petrol or diesel engines with 4- or 5-speed gearboxes.

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NEW BEDFORD SBI diesel, fitted 5-speed gearbox, per speed gearbox, red interior, cream-red exterior, early March delivery, list price per speed gearbox, between the speed gearbox, per speed gearbox, per

1959 BEDFORD SB3 41-seater, Duple body, red interior, ivory-red exterior, certificate of fitness 1965, £3,400.
BEDFORD SBI Burlingham 41-seater, red interior, certificate of fitness 1965, £3,100, June, BEDFORD SB chassis, Duple 41-seater body, red interior, choice of three from

1957 BEDFORD, petrol, green interior, heaters, radio, Formica sides, Formica to side domes, green-grey-cream exterior, one owner, certificate of fitness

1956 BEDFORD SB3, petrol, 41-seater, Duple body, heater, radio, red interior, cream-maroon exterior, certificate of fitness June, 1961, immaculate

vehicle, £2,650.

1956 BEDFORD Burlingham 41-scater, red interior, margan-tvory exterior, certificate of fitness

1930 maroon-wory exterior, certificate of niness february, 1961, £2.353, 1955 BEDFORD Duple, 36-seater, glass roof quarters, very clean vehicle, red interior, certificate of fitness, 1960, 7-ft. 6-in. wide, £2.350. 1955 BeDFORD SB3 chassis, fitted 36-seater bust acks, certificate of fitness 1964 E995, 1954 BEDFORD SB, petrol, Duple Super Vegs, 1954 BEDFORD SB, petrol, Duple Super Seater, 2007, 1953, £1.950. 1952 cream-blue exterior, certificate of fitness April, 1963, £1.950. 1952 cream-blue exterior, certificate of fitness Detaber, 1961, £985.

1932 cream-blue exterior, certificate of fitness October, 1981, £595.
1952 DENNIS Falcon, Eaton 2-speed axle, 33-31, 500 per 1982, good runner, £475, 1982, good per 1982, £4750, n.n.o. 1982, £4750, n.n.o. 1982, £4750, n.n.o. 1982, £4750, per £4750, good throughout, choice of the contraction of the c

1952 exterior, heaters, good throughout, choice of 1952 fi.E.C., 9.6 Burlingham Seaull, 41-seater body, 1952 fitted heaters, autumn tint interior, grey-green exterior, certificate of fitness 1962, E1,800.

1950 DENNIS 33, 33-seater luxury body, fawn interior, grey-green exterior, certificate of fitness 40ril, 1960, E283.

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1949-50 BEDFORD Vistas, 29-seaters, high-backed seats, Formica sides, very clean, choice of two,

1747 scats, Formica sides, very ciean, success the from £500.

SELECTION of petrol- and diescl-engine coaches for carriage of office personnel, from £100.

NEXPENSIVE BEDFORD Visias (or mobile shops, site office, usually available from £60.

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A south, we offer a good repair service; also painting and trimming; crash jobs our speciality. We can usually arrange to hire you a coach while yours is off the road.

OMNIBUSES for sale TWO Double-deck GUY (1944), 6LW Gardner engines, ONE Double-deck LEYLAND (1942), 8.6 engine, £95. NE Double-deck LEYLAND (1942), 8.6 engine, 695.

NE Double-deck A.E.C. (1947), 9.6 engine and compressed air brakes, 6220.

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### SAVILLE MOTOR SALES, LTD., HARVESTER HOUSE, STRATFORD-ON-AVON.

Phone, Stratford-on-Avon 4242 (15 lines). And on Saturday afternoons 4005:

1958 BEFORD (petrol) Duple 41-seater luxury coach heater and air conditioning, wheel disc retificate of fitness 1965.

1952 heaters, finished in maroon and cream, certificate of these 1965.

cate of fitness 1962.

1949 FODEN Whitson 33-seater luxury coach, diesel heater, finished in grey and blue, certificate o

finess 1964.
20-SEATER BEDFORD Duple Vistas, choice of several
with current certificate of fitness.
EVERAL diesel half-cabs, suitable for school/works
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ALSO AT:-REDBROOK ROAD, MONMOUTH.

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41-SEATER THAMES DUPLE COACHES

AVAILABLE FOR EARLY DELIVERY. DEMONSTRATION COACH SEEN BY APPOINTMENT.

1953 37-scater DENNIS Plaxton. 1951 35-scater DENNIS Duple. 1950 33-scater A.E.C. Burlingham.

SEVERAL 29-seater BEDFORD Vistas, 1948 onwards, and 33-36-seater diesel, suitable for service work.

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SECOND-HAND COACHES NOW IN STOCK.

1956 LEYLAND Tiger Cubs. 41-scater Burlingham and Alexandra concubwork, fitted new engines.
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1954 Christopher Cub 41-scater Burlingham.

tyres, £2,750.

1953 LEYLAND Royal Tiger 41-seater Harrington, heaver sind-cream and green exterior, fitted radio and the state of the

Riviera, fitted radio and heater, choice of two. 1,000, 1953 BEDFORD petrol 36-seater. Harrington, autumn int interior, cream and red exterior, excellent petrol 1953 end of the seater, Harrington, red interior, arey and blue exterior, radio and heater, £1,750. SENTINEL Elizabethan, fitted 6-cylinder dieseinsteate Burlineham, Bited radio and heater, blizo blue exterior, red blue exterior, retain and blue exterior, retain clutch and blue exterior, perfect, £2,250. 1952 BEDFORD petrol Duple Super Vega 35-seater, and blue exterior, retain exterior. Reter district fitted glass and heater, £1,000. BEDFORD petrol 33-seater, green interior, recam and green exterior, fitted glass and heater, £1,000. LL the above vehicles are garaged under cover on the premises. Special H.F. facilities at 5% per support.

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1954, March, BEDFORD Thurgood (37), 7 ft. 6 in. wide, grey and green, roof vents, excellent, 1954, wide, grey and green, roof vents, excellent, certified 11.3.64, £1.650.
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A Number of other petrol and diesel coaches suitable for workmen and staff in running order, from £200.

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COACHES AND COMPONENTS. LTD., 469-475 HOLLOWAY ROAD, LONDON, N.7. Archway 2647 (five lines).

New BEDFORD diesel Duple 41-seater Super Vegas.

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BEDFORD petrol 41-seater Super Vegas.

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1955 BEFFORD 38-scater Super Vega, fawn fforal mouette, cream, red exterior, Perspex roof 1954 BEFFORD 36-scater super Vega, red mouette, certificate of fitness 1960.

1954 BEFFORD desealer super vega, red moquette, check, the super vega roof quarters, clock, 1954 BEFFORD diesel 36-scater Harrington Duple, choice of six.

1954 BEDFORD diesel 36-seater Harrington Duple.
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1951 June, BEDFORD petrol 33-scater Super Vega,
1961. exterior cream-green, certificate

1951 - S. BEDFORD 35-seater Gurney Nutting body, certificate of fitness 1961; choice of three, 1951 - S. DENNIS 37-seater, Gurney Nutting body, certificate of fitness 1961; choice of three, 1951 - S. DENNIS 37-seater, Gurney Nutting body, exterior maroon-cream, choice of two, 1950 - Certificate of fitness 1960, choice of two, control of two certificate of fitness 1960, choice of two certificate of fitness 1960, choice of two, 1950 - Certificate of fitness March, 1960. Deleving 33-seater Metalerial Company of the Certificate of fitness March, 1960, pulpe body, exterior maroon-cream, certificate of fitness December, 1961.

SEVERAL 29-seater and half-cab coaches at low prices to make room for new stock. These are particularly suitable for conversion.

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New 1960 model BEDFORD (petrol) 41-seater Plaxton Consort. Two only available.

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Neaguli 60, latest model, immediate delivery.

Neaguli 60, latest model, immediate delivery.

BEDFORD SB3 petrol 41-seater Burlingham Seaguli, blue-7 ATKINSON L644 (Gardner 4LW).

BEDFORD SB3 petrol 41-seater Burlingham Seaguli, blue-red, heater, radio; choice two.

BEDFORD SB1 diesel 41-seater Burlingham Seaguli, blue-red, heater, radio; choice two.

SEDFORD SB1 petrol 41-seater Burlingham Seaguli, blue-red, heater, radio; choice two.

SEDFORD SB1 diesel 41-seater Burlingham Seaguli, blue-red, heater, radio; choice two.

SEDFORD SB1 setrol 41-seater Duple Super Vega, 2-tone green, as new.

COMMER TS3 (Rootes diesel) 41-seater Duple Super Vega, heater, radio; choice three.

BEDFORD SB petrol 41-seater Plaxton, Triples quarrer lights, heater, radio; choice two.

SEDFORD SB petrol 41-seater Plaxton, Triples Quarrer lights, heater, radio; choice two.

PEDFORD SB petrol 43-seater Burlingham Seaguli, heater, radio, certified 1963.

Seaguli, heater, radio, certified 1964.

POMER Avenger petrol 35-3-seater Burlingham heater, certified 1962.

HIRE-PURCHASE FACILITIES.

COMBERHILL MOTORS, L TD.,

COMBERHILL MOTORS, LTD., Phone, Wakefield 6771 (10 lines). 844-415

1957 BEDFORD petrol 41-scater Plaxton.
1958 BEDFORD petrol 41-scater Plaxton.
1958 COMMER TS3 41-scater Plaxton.
VICTORIA COACHES, J159 London Rd., Leigh-onSea Phone 74456

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S.M.T.

177-205 FINNIESTON STREET. GLASGOW, C.3.

PHONE, DOUGLAS 194 PHONE, DOUGLAS 2940.

FINEST SELECTION OF MODERN USED COACHE ALL MACHINES IN SHOWROOM CONDITION AND ARE OFFERED AT VERY COMPETITIVE PRICES A

### REDFORD.

1958 BEDFORD Duple, 41-seater, full-luxury coach on ficate of fitness valid until April, 1965, exterior finisher forcam with red flash, and seating transfer in red-pattern moquette, speedometer reading 26,000 rds, speedometer feating 26,000 rds, forcam machine, or forcam fitted, excellent mechanical conditions and me fresh machine, price £2,750.

1957 BEDFORD Duple, 41-scater full-luxury cosch, or ficate of fitness March, 1964, exterior finished is until the flash and window surrounds, seating trimous fawn-patterned moquette, speedometer reading 47,000 actras include: heater and demisters, radio with pa address, headrest covers, 2-ton Formica side cate price £2,000.

1957 BEDFORD Burlingham, 41-scater, full-luxury coe-exterior in cream with light blue on lower pase, as window surrounds, seating trimmed in red and grey date patterned moquette with grey p.v.c. headrests, certificate fitness March, 1964, speedometer reading 48,000 mil extras include: heater and demisters, radio with pol-address and Formita side casings, price 22,825,

1957 BEDFORD Plaxton, 41-scater full-luxury one certificate of fitness June, 1964, exterior in cream, sain trimmed in red and grey-patterned moquette, special reading 36,000 miles, extras include: heaters and deman width marker lamps, price £2,995.

1951 A.E.C. Burlingham 41-scater full-luxury coach, emcate of fitness June, 1960, exterior thished in cream, as ing trimmed in red-patterned moquette, perconnecading 84,000 miles, extras include: radio, heate a deministers, Formica side casings, price 82,000.

1953 A.E.C. Whitson 41-seater, full-luxury coach on cate of fitness October, 1962, exterior finished in black trimmed in ovelor with black leating of coach, and trimmed in ovelor with black leating of coach, and meter reading 74,000 miles, extras include; heaten demisters and width marker lamps, price £1,89.

1953 A.E.C. Gurney Nutting 41-scatter full-luxury con-certificate of fitness February, 1963, exterior finished torquoise with cream root and wiss, seatest torquoise with cream root and wiss, seatest blue-patterned mountete, extras include; demisters, radio with public address, width marker law speedometer reading 49,000 miles, the engine of its machine has Just been overhauled and new pistons as liners fitted, price £2,100.

### HIRE-PURCHASE FACILITIES.

PART-EXCHANGES WELCOME. 844-101

1951-52 FODEN 37-seater special Whitson body is unused last year, certificate of fitners 1961, 875. 1952 LEYLAND PS2 35-seater, with division, embedies expires February, 1960, to be sold without ensine. What offers?

1950 body completely reframed, A.E.C. 7.7 eggs and gearbox, needs finishing. What offers?

Ok consider part-exchange any of above for model wheeler, Uxbridge 8617.

OYAL Tiger, 41-seater Harrington dorsal fin box, many extrus, date of registration May, 1953, cerdinar of times 1963.

TiGER Cub, 37-seater Harrington dorsal in body, may extrus, date of registration May, 1954, cerdificate fitness April, 1965.

EYLAND Worldmaster, 37-seater Harrington dorsal in body, may extrus, date of registration June, 1965. Certificate of times June, 1965, Pneumo-Cycle gearboan, fitted with 600 Royal Tiger engines.

### GLIDERWAYS COACHES, LTD. 316 BEARWOOD ROAD, BIRMINGHAM.

1959 MORRIS II-seater P.S.V. Minibus, Wadhat luxury conversion, face-forward seats, 3,66 1953 LEYLAND Royal Tiger 41-seater, Leyland almetal luxury coach body, air brakes, £2,29, 1957 BEDFORD 41-seater Duple Super Vega, £2,78

1954 BEDFORD 38-seater Duple Super Vega, 8 f., 1950.
1950 BEDFORD 29-seater Duple Vista, high-back actas, certificate of fitness three years, 255.
1950 7 ft. 6 in. high-back actas, £695.
1950 7 ft. 6 in. high-back actas, £695.
1950 COMMAY HUNT, LTD., Brox Rd., Ottershaw 461, day and night.
1959 COMMER T53 41-seater Duple SV, 6866.
1950 COMMER T53 41-seater Duple SV, ending the fit of the fit o

interior, cream exterior, 19,000 muss, throughout, £3,450. LeYLAND PS1 (works-reconditioned change for the formal side casings, exterior cream-blue, life-up out, heaters, disc., etc., excellent condition throughout £1,50. WHITEFORD'S LUXURY COACHES, Negative Lanark 460.

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34 CLEVE WOLVE PASSENGER TRA

BEDFORD COM VAILABLE, BODIED

1958 air brakes. £3,2 1958 BEDFORD po immaculate cor DAIMLER 958 BEDFORD point immediate cor DAIMLER Flizabethan cos SENTINEL 6-1954 bus, driver-oper

M 61.690 Arab ensines, 41-sea also of sine, ex our of 1952 choice of two, 1951 FODEN 6LW Hartwell coach 1951 EEYLAND P certified 1961, 1950 coach, courier 6675. FODEN 2-str 1950 coach, new M 1962, £850. 1950 DENNIS 6-cy coach, certified 1949 certified 1962,

DIESEL 33-SEATER

FOR SHORT PHONE, WOL NIGHTS AND WEE DON E

> PERCY D LONDON (

1957 clean. 1953 finess 1963, 1951 body, certification 1950 BEDFORD fitness 1960, DART-EXCHANGES

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BRISTOLS, 1948, 3
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1953 BEDFORD 1962, £1.76 1956 BEDFORD £2.650, 1955 COMMER 1956 1955 1949

IONE. DOUGLAS 29.

ERN USED COACHE OM CONDITION AN PETITIVE PRICES

full-luxury coach, em-crior finished in crum nds, seating trimmed a eter reading 47,000 min, ters, radio with polic Formica side culture.

eater, full-luxury costs on lower panels as in red and grey died headrests, certificated reading 48,000 miles ers, radio with posi-ings, price £2,625.

Il-luxury coach cents or finished in black as part of coach, seating ther headrests, speeds include: heaters as mps, price £1,850.

ACILITIES.

VELCOME. 844-101

cial Whitson body, mengine, fitted 1998, ness 1961, £975, with division, cents-cbruary, 1960, to be

Mark III. 33-seate. d, A.E.C. 7.7 engine t offers? of above for modern 844-45

ton dorsal fin bolt. May, 1953, certificit dorsal fin body, may

Harrington dorsal in gistration June, 1985, cumo-Cycle gearboss,

IES, LTD., RMINGHAM. /. Minibus, Wadhan forward seals, 3,000

11-seater, Leyland al-air brakes, £2,250. e Super Vega, £2,79.

three years, £525, chan full-front body, £695, d., Ottershaw, Phose, or Duple SV. (198)

r Duple S.V. (itted air brakes, o discs, etc., red-miles, immer

reconditioned chassis interior brows with m-blue, lift-up roofs, n throughout, £1,700. ACHES, Nemphis, \$44-291

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PASSENGER TRANSPORT SPECIALISTS.

BEDFORD COMMER OR FORD CHASSIS BURLINGHAM OR ABLE, BODIED BY BURLINGH.
DUPLE TO YOUR INSTRUCTIONS.

958 COMMER T53 41-seater Duple S.V. coaches, air brakes, £3,250.6 141-seater Duple coach, 1958 BEDFORD certoff on £3,100.0 141-seater Duple coach, DAIMLER Freeline 41-seater Duple Elizabeth in coach, new engine fitted, £2,660.

bus, anteresperate door, control of the control of

coach, courter as a second of the coach new Mk. II engine fitted, certificate of Joseph new Mk. II engine fitted, certificate of 1961, 4850. e-ylinder diesel 35-scater, Whitson 1950 coch, certified 1960, 4590. MAUDSLAY 7.7 33-scater Duple coach, certified 1961, 4850.

50
DESEL 33-SEATER HALF-CAB AND 29-SEATER FERROL COACHES AT £150-£400, OR AVAILABLE FOR

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A.E.C. Reliance, mounted Duple, Plaxton, Harring-ton 41-seater coach bodies, finishing to

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DISTOLS, 1948, high- and low-bridge E.C.W. bodies, but off service, Gardingr and A.E.C. engines, certificated from £250.

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JAMLERS, 1948, 56-seaters, high-bridge Brush bodies, particular available, choice of engines, C.V.D., C.W.D., C CRA, 1200 each, 35-seaters, E.C.W. bodies, choice Glother or Bristol A.V.W. engines, immaculate cor tricks, 8275 each.

BUSTIN, 1959, Omnicoach 13-seater, heater, £525.

NGLE- and double-deckers of all makes, suitable for works contract, from £125 each. NY util vehicles taken in part-exchange. Terms if

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1953 REDFORD 16-scater Duple, certificate of fitness 1962. £1700.

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1955 COMMER 41-scater Plaxton, heater and radio. £2,550.

1959 Commercial fitness 1953, engine reconditioned, heater and radio. £350.

1950 Fitness 1953, scater Burlingham, certificate of fitness 1951, £285.

1950 Fitness 1951, £285.

1950 REDFORD 29-scater Duple, certificate of fitness 1952, £470.

1952, £470.

1952, £470.

1958 REDFORD 29-scater Duple, certificate of fitness 1950, £470.

1958 REDFORD 29-scater Duple, certificate of fitness 1950.

1958 REDFORD 29-scater Duple (1950).

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SPECIALISTS. OFFER FOR IMMEDIATE AND EARLY DELIVERY

NEW LEYLAND Tiger Cub, 41-seater Duple super New Thames Trader 6D, 41-seater Duple, Harrington Pakace your order with us now for spring delivery.

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1951 LEYLAND Royal Tiger, 39-seater Windover 1950 BEDFORD 29-seater Duple Vista.

MAJORITY OF ABOVE COACHES ARE 8 FT. WIDE AND CARRY GOOD CERTIFICATES OF FITNESS.

1959 BEDFORD 15-cwt. chassis fitted Martin Walter

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of intenss 1964.

1950 Cate of fitness 1964.

1940 FODEN 61. W Trans U. full-front 33-seater, certificate of fitness 1961.

1948 LEYLAND PDI Burlingham full-front enclosed-staircase low-bridge 53-seater double-deck bus,

good order. 2019 Arab, SLW, Wilks and Mead 33-seater, 1948 certificates of titness 1963; choice of two. 1947-8 A.E.C. 7.7 Brush and Duple 33- and 35-seater buses; choice of three.

A Number of 1946-7-8 LEYLAND PDI low-bridge could be considered by the country of 1946-7-8 LEYLAND PSI Burlingham A.S.-seater coaches and 35-seater buses, certificates of untess up to 1964.

1947 A.E.C. Regal 33-seater luxury coach, all new 1949 SELDION Mark IV 31-seater luxury saloon.

SPARES: DAIMLER, DENNIS, GUY, LEYLAND TDI, 5 AND 6 MODELS.

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1957 BEDFORD 41-seater Plaxton, fitted radio.

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1956 BEDFORD 41-seater Yeates, one owner from the win first-class condition throughout, 22,600.
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CHOICE of a number of half-cabs, 33-35-seaters, suitable for contract work, some with good certificates of tiness, from £150.

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A.E. C. Mark III 55-seater high-bridge double-cashines, in gockers, then, Rowe bodies, 9.6 diesel cashines, in gockers, then, Rowe bodies, 9.6 diesel cashines, in gockers, the property of t

1948 LEYLAND PS1 coaches. fitted 33-35-senter bodies, in excellent of price 4400/4475.

LATE MODEL LATE MODEL BRISTOL. A.E.C. 30 SERVICE SALOONS.

1948 49 A.E.C. 35-33-seater service saloons, all-metal diesel engines, in super mechanical and body condition, certificate of fitness 1964-61, choice of 20, price £475/£650, 1948 49 BRISTOL 34-35-seater service saloons with almestal Eastern Coach Works bodies, fitted late-series low-mileage Bristol 6-cylinder A.V-type dieselengine, 5-period crash bose, in immediate mechanical and engine, 5-period crash bose, in immediate mechanical and of fitness 1963-62, choice of 10, price £550/£60, certificate of fitness 1963-62, choice of 10, price £550/£60, certificate and body condition, choice of six, certificate of fitness 1963-61, price £350/£550.

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£20,000 of brand-new and used spares of all 8.6 and 7.4, etc. Leyland 8.6 and 7.4, etc. transmission units, differentials, etc., at lowest prices. Inspect our new walk-round spares stores.

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1959 BEDFORD SB3 with Plaxton 41-seater bodies. heate s. etc., as new, choice of two, £3,200 or

1947 DAIMLER CVD6 rebodied in 1952, present engine 40.000 miles, certified July, 1961, £525

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1951 MAUDSLAY flitted with A.E.C. 7.7, and Burgingham Seagull 35-scatter body, certificate of figures 1961.

ntness 1961.

1953 BEDFORD Yeates Riviera 35-seater, certificate
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ALL in very nice condition, write for full details:—

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1950, Seater Duple Vista 29-seater, certificate of fitness 1964.
1950 fitness, choice of four.
1950 body, certificate of fitness, choice of two.
1951 kgeistered A.E.C., 7.-fitre diesel, full-front 37-seater Eastern Coachworks body, certificate

of fitness 1961.

1949 CROSSLEY diesel, 33-seater Whitson body, certificate of fitness 1962, choice of two.

1949 SENTINEL 40-seater, full-front, certificate of fitness, ex group vehicle.

1950 SEDDON P6 diesel. 31-seater full-front, certifi-

DOUBLE-DECK

1950 GUY double-deck 5LW, Gardner engine, 56 seats, high bridge, immaculate, certificate of

1930 seats, high bridge, immaculate, certificate of itiness, choice of two.
1946 GUY double-deck, 5LW Gardner engine, 56 seats, high bridge, immaculate.
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11,350 o.no.E.C. Mark III, preselector, 35-seater Duple, criticate of fitness 20,9.62, £525 o.no. 1950 eEEFORD Duple Vista, 29-seater, high back, criticate of fitness 1,12.62, £525 o.no. 1953 BEDFORD periol, 35 seats and courier, Burlingham Seagull, certificate of fitness 18.3.63. BUCKBY'S COACHES. 27 High St., Rothwell. Northants. Phone, Rothwell 344, 844-x3231

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PS 1 Half-cab 35-seater coachwork by Strachan, year 1948, colour, etc. as above, certificate of May.

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ARCLID, NEAR SANDBACH, CHESHIRE.

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BEDFORD petrol 41-scater Duple, exras (choice of two).
COMMER TS3 41-scater Plaxton (one owner). 1957

955 BEDFORD petrol 38-seater Plaxton and Duple (choice of two).
COMMER TS3 38-seater.

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1950 BEDFORD Vista 29- and 27-scaters, all in first-

1930 class condition on Beford, Commer, Ford, Albion and Leyland chasis with bodies by Burling-WE are now taking orders for the coming season, Bedford, Commer, Ford, Leyland, A.E.C., etc., and can offer good hire-purchase terms on new and second-hand machines.

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BARNARD AND BARNARD, LTD., PASSENGER FORD COACH DEALERS.

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1960 Phames Duple Yeoman, 41-seater, fitted with panels and many other extras, trimmed in red and grey moquette, exterior cream and red.

1960 Thames Plaxton Consort IV 41-seater fitted with Perspex quarters, radio and heaters. Formica side panels and many other extras, trimmed in red and grey consort IV 41-seater fitted and grey consort IV 41-seater fitted with Perspex quarters, radio and heaters.

Formica side panels and many other extras, trimmed in red and grey consort IV 41-seater fitted with Passenger State of the Consort IV 41-seater fitted with Cons

1957 Duple body, fitted with neater, as new, certified 1956.

1958 luxury Duple body, fitted heaters, speech amplification of the property of

and heater, certified.

1954 A.E.C. Reliance, 41-seater full luxury Duple
body, fitted heaters, speech amplification, in
excellent condition throughout, certified 1964,
1954 BedFORD Vega 38-seater, full-luxury Duple
body, fitted with heaters, certified 1964; choice

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BEDFORD Seagull 36-seater, full-luxury Burlingham body, fitted with heater, roof 1953 B

1953 BEDFORD Seagull 36-seater, full-luxury Duple of the BedFORD Vega 33-scaler, full-luxury Duple of the BedFORD Vega 33-scaler, full-luxury Duple of the BedFORD Vega 33-scaler, full-luxury Duple of the Condition of the BedFORD Vega 33-scaler, full-luxury Duple of the Condition throughout, certified 1962.

1952 scaler Mann Egerton body, in good clean condition throughout, certified 1962.

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1950 BEDFORD Vista, full luxury Duple body, full for the Condition throughout, certified 1960.

1960.

48 LEYLAND PS1 full-front 35-seater, fitted
Formica side panels in exemples condition throughout,
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SEVERAL coaches suitable for workmen and mobile
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1954 SEDDON Duple 41-scater, 3-speed axie, tubular blue moquette, \$2,100.

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1960, 33 high-backed seats, green and cream.

1949 BEDFORD Vista 29-scater, cream-brown, sound condition. £275.

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Yeates Riviera 35-scater, green and cream, high-backed scats, £375.

Pythogogaether and cream, high-backed scats, £375.

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ACTALLY IN STOCK.

READY FOR IMMEDIATE SERVICE.

1952 A.E.C. Mark IV underfloor 39-seater Continention, choice of two, £1,250 catch, Perspex top, in super condition, choice of two, £1,250 catch, proper full front, no bulkhead, 1950 (as a seater full-two for throushout, certificate of fitness 1961, £395.

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1948 FODEN low-bridge double-decker, very modern-looking machine, in excellent condition through-

1948 And 1949 A.E.C. 35-seater service buses, all extension of the service buses, all with 7,7 and 9.6 engines, £275 each.

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1947 and 1948 BRISTOL 35-seater service buses, and 5-speed gearboxes, certified 1962, 2325 each.

1948 And 1949 BRISTOL super coaches, powered by Gradner 5LW diesels and 5-speed gearboxes.

6395 each.

1948 all-metal bodies, 9.6 A.E.C. double-deckers, low-bridge and very excellent throughout, four only, £395 each.

1958 12-14-seater MORRIS Mini bus, in almost new condition throughout, four four of the first of th

EYLAND low-bridge double-deckers, 1950 bodies, super condition, £295 each.

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ARLINGTON MOTOR CO. LTD. LONDON'S LEADING PASSENGER AND COMMERCIAL-VEHICLE SPECIALISTS.

HEAD OFFICE: HIGH ROAD, PONDERS END, ENFIELD, MIDD HOWARD 1266, PBX.

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IMMEDIATE DELIVERY EX STOCK.

BEDFORD SB3 (petrol) Duple 41-scater Super Ven 8 ft. wide, glass roof quarters, tubular tacks, the heaters, special moulding K, many other extras, finish ream, red moquette.

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AVAILABLE FOR DELIVERY EASTER-WHITSUN

BEDFORD petrol or diesel chassis mounted with one work by Duple. Plaxton. Harrington or Buffast.

25-41-seature.

Reliance chassis with air brakes means.

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USED COACHES.

EX STOCK

A.E.C.

1955 Reliance special 35-seater Plaxton touting many extras fitted, finished cream and blue, certificate or

many extras litted, finished cream and blue, certificate intress 1960.

1953 Riviera 41-seater, divided-type seats in moquette, finished red-cream, certificate of fitness in the seater of the seater

LEYLAND.

1951 PS2 Harrington 37-seater, half-cab, dorsal in repainted maroon-grey, certificate of fines

1960.
1950 PS2 Strachan 35-seater, half-cab, finished pm. certificate of fitness 1962.
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1964 Comet CPO-1, Harrington 33-seater, fainted pm. certificate of fitness 1964.

REDFORD.

Burlingham 41-seater, petrol engine, radia as speakers, two heaters, many extras, faished per and red, certificate of litness 1966.

Duple 41-seater, petrol engine, which is the petrol engine of the petrol engine, and the petrol engine en

ness 1964.

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1955 Gurney-Nutting 35-seater, floral moquete, floral flore of the state o

ALSO THE FOLLOWING COACHES.

partition behind driver, autumn tin moquette, findale blue and cream, certificate of fitness 1960.

1950 central-entrance full luxury coachwork by Peanse, and the coachwork coachwork of the central-entrance full luxury coachwork, findale blue and cream, certificate of fitness 1960.

A LSO stock of half-cab Leyland and A.E.C. coaches.

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EYLAND Royal Tiger 41-seaters, choice of two, 1965 1950 LEYLAND PS2 33-scater Burlingham.

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BIRMING 3222-3-4 and 2136.

USED PASSE ONE CROSSLEY EIGHT DAIMLER

Year of registration ONE A.E.C. D FURTHER PARTICUAPPI

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1955 BEDFORD Du and heaters, on 1953 BEDFORD Downer, certified 1951 BEDFORD Pla and heater, certified 1950 Bed 1964, one 1950 Bed 1964, one 1949 COMMER (Po

PART-EXCHANGE. EVINGTO

AGRICULT 1955 incorporating

Hispan Portsmouth POR sale, Atkinson I tractor; also QL GM.C. 6 x 6

AM AMBULANCES, all Lawton-Goodman,

**ARTICUL** INCLUDING N CARRIMORE close-

CARRIMORE SIX-BEDFORD-SCAMME DEDFORD-SCAMME
hater, one owner,
IACRERBY AND CO
Dom 5883. Gra
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Nilabert Dees, Ltd
Gueton 6011.

1957 COMMER
Trailer, air
COXYS MOTORS: (-)
West Bronnwich 0

REDFORD-SCAMMI 1949 BEDFORD

E. J. BAKER DORK

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CAPITAL REDEOR SCAMM JEW SCAMMELL immediate delivery
New BEDFORD 8
for early delivery
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aways available. LECTION of 3-1 REMINGTON ST. Clerkenwell 7456 (contd.)

Co. LTD. SPECIALISTS. E:-D. ENFIELD, MIDDX PBX.

EX STOCK. 41-scater Super Ven. ers, tubular racks, to y Other extras, finished

HES.

el), Harrington Crassis, Radiomobile-spec

HES. EASTER-WHITSUN rington of Burlington h air brakes mo or Harrington Ca

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ngine, preselector ser-tates Riviera 35-seate uarters, tubular nea-finished metallic ble

r, half-cab, dorsal in certificate of fitter alf-cab, finished pen nter, red seats, faithful of fitness 1961, ton 33-seater, faithful fitness 1964,

trol engine, radio ad many extras, finished 1966. I engine, divided-ne ation, many estas. 1966. kury coachwork, rada mica panels and man-hout, finished grey as

roof quarters, tabula Vega, red moquette of fitness 1964. ter, floral moquette d ivory-black, ex lang 962, ed moquette, finished 1962.

een moquette, finishe ss 1962. uple 29-scater Vista. with current certificats

COACHES. rerkins P6 oil engint achwork by Pearson nt moquette, finished so 1964. Whitson 37-sesse ry coachwork, finished so 1960. and A.E.C. conchet.

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ONE CROSSLEY DOUBLE DECK BUS. Year of registration, 1948. Good condition EIGHT DAIMLER DOUBLE DECK BUSES. Year of registration, 1948. Good condition. ONE A.E.C. DOUBLE DECK BUS. Fitted 9.6 engine. Excellent condition.

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1955 aEDFORD Duple Super Vega, 38-seater, radio and heaters, one owner, £2,050.
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1960 Thames Duple 41-seater, available May. 1954 BEDFORD Super Vega, certificate of fitness

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ARE now taking orders for 1960 BEDFORD 29- to 41-seater capacity luxury coaches, fitted with petrol PART-EXCHANGES and H.P. terms arranged to your

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THAMES 41-seater diesel coach, new for early delivery, Duple body. Demonstration available.
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Tolk sale, Atkinson trailer, spreader and NUFFIELD Instor, also QL Bedford, Markjohn body, Williams, Green, 38 Athelstan Rd., Hastings, Phone 500 (cenings).

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6 x 6 lime spreader; Chevrolet 6 x 4 60 (stenings). 844-x3344 G.M.C. 6 x 6 lime spreader; Chevrolet 6 x 4 Company of the spreader. Mid-Wills Farm Services, Ltd. Steeple Ashton, Trowbridge, Wilts. 844-x3329

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CARRIMORE close-coupled articulated 6-wheelers, hand-wore appearance and ideal weight distribution. CARRIMORE SIX-WHEELERS, LTD., Carrimore C Works, North Finchley, N.12. Hillside 3631-23. DEFORD-SCAMMELL O model unit, P6 engine, baser, one owner, £163.

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PEFORD-SCAMMELL 10-ton tractor, reconditioned 30-cu-in, diesel engine, new block, good tyres. 1949 BEDFORD Tasker O-type tractor, clean and broughout, £100.

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Times and 6-ton Scarabs, petrol or disse, early delivery.

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Trailers from 6 tons to 8 tons sissues available.

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1952 Leyland Comet 90 12-ton artic. Eaton 2-speed axie and Tisker boxvan trailer, £675: also 957 Dodge axie and Tisker boxvan trailer, £675: also 957 Dodge 10-ton BEDFORD-SCAMMELL 300, in first-class order, £700.

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A LWAYS a large selection of good used articulated wehicles in stock for all types and sizes tractor units and trailers sold separately if required. Terms and exchanges.

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1957 TR3 articulated unit, air brakes, well shod, non owner, with 25-ft, trailer, B.T.C. coupling, choice of two. Box CM371, care of "The Commercial Motor."

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WANTED, 10-ton Scammell artic, trailers. W. H. Short, Ltd., Newthorpe, Notts. Kimberley 2391.

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BREAKDOWN NEW SALVAGE CRANE. H.F 8 TONS, FITTED.

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MILEAGE 2,000, 203 b.h.p., 64 m.p.h. FIRE AND FOAM PUMP, 750 g.p.m., CREW CAB 7-8 PERSONS. FIRE WARNING AND SEARCHLIGHTS, INTERIOR CAB HEATER, 1100 x 20 TWIN REARS.

BARGAIN PRICE, £1,950.

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SCAMMELL 45-ton breakdown tractor, fitted 7-ton Harvey Frost heavy-duty crane, first-class condition.

PETER OAKFORD, LTD. Oxford 78361. DED SCAMMELL trailers from 6 tons to 8 tons SECTION OF 3-ton Scarabs, 1950-56, in good conglection of 3-ton Scarabs, 19

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DIAMOND T 6 by 6 breakdown required, with Hercules petrol engine, one on 10 wheels and tyres 9.00 by 20, must be complete with all gear and in immaculate condition. Offers to:—Gordon L. Poole and Co., Lid., Oxford Street, Southampton. Phone 24024.

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1954 BEDFORD 5-ton long-wheelbase cattle truck, condition throughout, repainted blue, £525.

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A USTIN and Bedford 4 x 2 and 4 x 4 3-ton vehicles, Specification and photographs available on request. Overseas inquires

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Consider the property of the property

PODEN dumper for sale.

XI. can offer an ex-W.D. Foden reconditioned chassis, VI.1-dt. 3-in. wheelbase, fitted new Pilot dumper body and gear. 8 9-cs. yd., tyre size 14,00 by 20 with servo brakes, Gardner 6LW, immediate delivery, £1,900.

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SPECIALISTS IN 4 X 4, 6 X 4, AND 6 X 6 VEHICLES.

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Several Ford Worfs machinery trucks, unused and tackle, and 24-kV, generator, etc. Jacquier, Ltd., 229 Hammersmith Rd., W.6. Riv 67 M.C. 4-wheel-drive trucks, reconditioned, model M.R.A./1.

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6 X 6 A.E.C. refuellers or chassis. Bridge Motors (Commercial), Ltd., Station Garage, Botley, Southampton. Phone. Butley 2348, edg. A E. 643-4337 Variankers and new spares for same. sworder (Motors) Export, Ltd., London Rd., Loudwater, High Wycombe., sd(57)-seto enamp se werasaankrt etonsfr Merwdo s Bucks.

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TWO alloy insulated boxvans. single-door entry, 11 ft. 6 in. by 7 ft., on 1950 Morris chassis, running order, £80 each. Reynolds, Stanhoe, Norfolk. Phone. Docking 320. 845-x3303 1956 3-ton B.M.C. 4-cylinder diesel fitted with insulated van container, separate cab, complete with rails, 14 ft. long, 6 ft. 6 in, high, 7 ft. wide, just RUSHTON GARAGE, 110 Leeds Old Rd., Thornbury, Bradford, Yorks, 65527; after hours, 56925.

LUTON VANS AND PANTECHNICONS LET us quote you for a Freight light-alloy Luton on your chassis, 500 to 2,000 cu. ft., prices from £295,

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GUY Luton van 1.600 cu. ft., 4LK diesel, 2-speed axle. 22 m.p.s., Baico extension, walk-in tailboard, rear doors, 3-seater cab. unladen weight 3-9-0, good condition, ready for work, £750. Phone 55313 Wigan, Lancs.

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Late 1955 ALBION Relver 6-wheel double-drawled and the state of th

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NEW MORRIS 5-ton Luton vans, 1,250 cu. ft NEW BEDFORD 4-ton Luton vans, 1,000 cu. ft. JEW MORRIS 30-cwt. Luton vans, 650 cu. ft.

1958 BEDFORD 3-ton Luton, 1,000 cu. ft. 1950 BEDFORD 5-ton Luton, 1,000 cu. ft.

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1952 BEDFORD 2-3-ton Luton van, one owner, £225. Gordon King Motors, Mitcham Lane, S.W.16. Streetham 313-4. Streatham 3133-4.
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1956 BEDFORD 5-ton P6 diesel, 1,000 cu. ft. pan-technicon with drop well, 4575.
1954 BEDFORD 3-type 8-ton van, used on Admiralty metallic properties of the properties of the pan-ter of the panties of

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1952 Model ALBION Chieftain 1,100-cu-rf. diesel gearbox, good 7,50 by 20 tyres, unlader weight 3 tons 14 cwt. first-class condition, £495. W.E.M. Motors (Wimbledon). 506-508 Kingston Rd., London, S.W.20. Phone, Cherrywood 4322 and 4568.

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Cornettes and Austin 152 Martin Walter high tops,
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A GRICULTURAL SHOW exhibitor's plant (three units)
Comprising two de luxe office trailers with sinks, etc.,
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LARGE stock of tanks and tankers, all types, for disposal. Bridge Motors (Commercial), Ltd., Station Garage, Botley, Southampton. Phone, Botley 2243. 1949 AUSTIN 1,000-gal. tank wagon (3 comment), full equipment, Varley pump petake-off, everything good condition and working. A Tansell, Ltd., 8 Diglis Rd., Worcester. Phone, 844-years

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Stevenage 174. ANKERS, 1,200 gal., 1949-50, Austin. Quinto Thompson, Ltd., Lancaster Rd., Uxbridge. 1,000-GAL. 4-compartment Bedford tanker, mileage approx. 2,000, £225. Tring 3146, 844-241 **Tank Wagons Wanted** 

STAINLESS-STEEL tanks and tankers required. CM273, care of "The Commercial Motor." zzz.

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USTIN 6 by 4 hydraulic tipper, 4-yd, body, excellent condition, with new battery, spare wheel, £290, W. VASS, LTD., Ampthil, Bedford. Ampthill 3255. BEDFORD A-type tippers, steel bodies, Anthony hoise gears, ready for work, from £225; fifty available. Lying at \$1000 cm. From and Wolverhampton. Phone 2235 D. Stafford Street. Wolverhampton. Phone 2235 FORD 4D rock tipper, reinforced chassis, lying at the phone 2235 of the phone 2235 D. Stafford Street Wolverhampton. Phone 2235 D. Stafford Street. Phone 2235 D. S

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The company, whose headquarters are at Charles Stockport, operates some 660 vehicles on stage carr services in Cheshire. Derbyshire. South-east Lancash and Yorkshire. and on express services, excursions tours and contract work.

Applicants must have had administrative and technical experience, at a senior level, in the mainkenance of a fleet of public service vehicles and in the control of staff. Applications, which will be treated in strict confidence should give full particulars of the applicant's career with a front sheet showing:—

- 1. Name and address.
- Whether single or married and, in the latter case, the number and ages of any children.

- 6. Professional or technical qualifications
- Brief statement of present and previous appointments arranged chronologically.
- 8. Present salary.

  And should be sent under "Private" cover to THE GENERAL MANAGER.

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### **TENDERS** SHIPLEY URBAN DISTRICT COUNCIL

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TENDERS ARE INVITED FOR THE SUPPLY OF FUELS FOR VEHICLES AND PUBLIC WORKS PLANT FOR THE YEAR COMMENCING APRIL

Approximate demand: PETROL (Commercial—500-gal. lots), 18,000 gal.

PETROL (Premium, Local credits authority), 1,000 gal.

DERV. 3,500 gal.

GAS OIL, 2,000 gal. onditions of contract may be inspected at the offer f the undersigned to whom tenders endorsed "Transpor-Trender for Fuel Supplies" should be submitted not him than 10 a.m. on Monday, March 7, 1960.

ERNEST PEARS, Town Hall, Shipley, Clerk and Solici Yorkshire.

GLASGOW CORPORATION CLEANSING DEPARTMENT.

### VEHICLES

OFFERS ARE INVITED FOR THE SUPPLY OF NUMBER OF MECHANICAL VEHICLES COUPRISING REFUSE COLLECTORS. SWEEPER COLLECTORS, GULLY EMPTIERS. PEDESTRIAL CONTROLLED TRUCKS. GENERAL PURPOS CONTROLLED TRUCKS. GENERAL PURPOS CONTROLLED TRUCKS. VEHICLES AND PRIVATE CARS

Particulars of the vehicles and tender forms may obtained from the Director of Cleansing, 235 Ga Street, Glasgow, C.I., and tenders should be read to me by March 7, 1960.

ALEXANDER ROOKE

Town Clerk

City Chambers, Glasgow, C.2.

BANSTEAD URBAN DISTRICT COUNCE

### SALE OF SURPLUS VEHICLES.

TENDERS (FOR BOTH OR EITHER) ARE INVITED FOR TWO 1948 "M5" TYPE 70-CWT. DENNS REFUSE COLLECTION VEHICLES WITH TRANSPORT MOVING FLOOR BODIES (12-15 ct. ;2). WHICH MAY BE INSPECTED AT SUTTON LAW DEPOT, BANSTEAD, 8 a.m. 10 3.30 p.m. MONDAY TO FRIDAY

No Tender will be received except in a plain state envelope which may bear the words "Tender-Supple Vehicles," but shall not bear any name or mark and catting the sender, and such envelopes must be received he me by Monday, March 14, 1960.

The Council do not bind themselves to accept the histor or any tender. F. L. SHAW,

The Council House, Clerk of the Council Brighton Rd., Banstead, Surrey. February, 1960.

METROPOLITAN BOROUGH OF LEWISHAM

TENDERS ARE INVITED FOR THE SUPPLY OF-(a) 2—SEDDON-EAGLE COMPRESSMORE REFUSE VEHICLES.

(b) 1—7-TON REFUSE VEHICLE (FORE-AND-AFT TIPPING), EQUIPPED FOR EMPTYING II CL YD. CONTAINERS.

YD. CONTAINERS.

In each cuse offers are invited for taking used vehicls in part-exchange.

Particulars and form of tender from the Borough Engine, Lewisham Town Hall, Catford, S.E.6.

Closing date 12 noon, February 27, 1960.

METROPOLITAN BOROUGH OF CAMBERWELL.

### TENDERS ARE INVITED FOR SUPPLYING:-

(a) SIX HOUSE REFUSE COLLECTION VEHICLS (SEDDON CHASSIS WITH EAGLE COMPRESSMORE BODY). (b) ONE 6-TON LONG-WHEELBASE DROPSIDE TRUCK. (c) ONE 2-3-TON LOW-LOAD TIPPING TRUCK. (d) ONE 800-GAL. COMBINED GULLY EMPTIER AND STREET WASHING MACHINE. Tender Forms on application to the BOROUGH ENGINEER AND SURVEYOR. TOWN HALL, S.E. Closing date Wednesday. March 2, 1980.

Closing date Wednesday, March 2, 1960. 844-72

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February 19, 1960—THE COMMERCIAL MOTOR 67
(Supplement)

Books and Publications (contd.)

Books and Publications (contd.)

WHO'S WHO IN THE MOTOR INDUSTRY (Third Edition). A Directory of Personnel in the British Motor and Commercial Vehicle Industries and a comprehensive guide to constituent companies in the two industries, and to allied organizations and trade associations of the state of t

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